

**INTERIM REMEDIAL ACTION REPORT –  
DEMOLITION AND ASBESTOS ABATEMENT**

**REMEDIAL ACTION CONTRACT 2 FOR  
REMEDIAL, ENFORCEMENT OVERSIGHT, AND  
NON-TIME CRITICAL REMOVAL ACTIVITIES  
IN REGION 5**

**OMC PLANT 2 SITE  
WAUKEGAN, LAKE COUNTY, ILLINOIS**

**Prepared for  
United States Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604**

Date Submitted:	August 2, 2011
US EPA Region:	5
Work Assignment No:	167-RARA-0528
Contract No:	EP-S5-06-02
Prepared by:	SulTRAC
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US EPA RECORDS CENTER REGION 5



424308



August 2, 2011

Mr. Kevin Adler  
Project Manager  
U.S. Environmental Protection Agency (EPA) Region 5  
77 W. Jackson Blvd.  
Chicago, Illinois 60604

**Subject: Interim Remedial Action Report – Demolition and Asbestos Abatement  
Outboard Marine Corporation (OMC), Plant 2 Site  
Waukegan, Lake County, Illinois  
Remedial Action Contract (RAC) 2 EP-S5-06-02  
Work Assignment No. 167-RARA-0528**

Dear Mr. Adler:

SulTRAC is enclosing a copy of the above-referenced plan for your review. Copies have also been forwarded to CH2M Hill and the Illinois Environmental Protection Agency (IEPA) as requested.

If you have any questions, please call me at (312) 201-7474.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Hahne", with a long, sweeping underline.

Tom Hahne  
Project Manager

Enclosure

cc: Thomas Harrison, EPA Contracting Officer (letter only)  
Mindy Gould, SulTRAC Program Manager (letter only)  
Erin Rednour, IEPA (2 copies)  
Jewelle Keiser, CH2M Hill (1 copy)

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## 1.0 INTRODUCTION

SulTRAC has prepared this Interim Remedial Action Asbestos Abatement and Demolition Summary Report (AADSR) for the Outboard Marine Corporation (OMC) Plant 2 site (Site) in Waukegan, Lake County, Illinois, under the U.S. Environmental Protection Agency (EPA) Remedial Action Contract (RAC) II for Region 5, Contract No. EP-S5-06-02, Work Assignment (WA) Number 167-RARA-0528. The EPA scope of work for OMC requires a final remedial action report, completed in accordance with requirements specified in EPA Publication No. 9320.2-22(Closeout Procedures for National Priority List Sites). This interim remedial action report is provided to partially fulfill this requirement.

The purpose of this WA is to implement the remedial action (RA) in accordance with the objectives of the remedial design (RD). The statement of work (SOW) for the work assignment includes the RA for the Plant 2 site, which is Operable Unit (OU) 4 of the OMC Superfund site. The RA includes asbestos abatement, building demolition, building slab removal, sub-slab removal, soil remediation, and sediment remediation of the North Ditch and the South Ditch. The RA was divided into two phases: Phase I included asbestos abatement and building demolition. Phase II includes building slab removal, subslab fill removal, and soil removal from the Plant 2 area and 13 outlying remediation areas. In addition, Phase II includes sediment remediation of the North Ditch and South Ditch.

This AADSR describes Phase 1 of the RA (demolition activities). The demolition activities focused on the Plant 2 building, including all remaining buildings on the site except the remaining Triax Building (and the adjacent Trim Building Slab), which has been used for groundwater remediation activities associated with the nearby Waukegan Coke Plant cleanup. Use of the Triax Building and Trim Building Slab will continue as part of the Waukegan Harbor Sediment cleanup. All Plant 2 demolition activities have been completed including abatement of asbestos containing material and demolition of the building structures above the slab.

### 1.1 SITE LOCATION AND HISTORY

The OMC Plant 2 site is located at 90 East Sea Horse Drive in Waukegan, Illinois, about 40 miles north of Chicago. The OMC Plant 2 site is the fourth of four OUs on the OMC National Priorities List (NPL) site, which also includes the Waukegan Harbor site (OU 1), the Waukegan Manufactured Gas and Coke Plant ("Waukegan Coke Plant") site (OU 2), the polychlorinated biphenyl (PCB) Containment Cells (OU 3), and the OMC Plant 2 (OU-4). Figure 1 shows the location of OMC Plant 2.



The OMC Plant 2 site is a 60-acre lakefront parcel that formerly contained an abandoned 1,060,000-square-foot (sq ft) industrial facility in which OMC made outboard motors from about 1948 until 2000. The facility was divided into an older plant and newer plant. The older plant, consisting of about 620,000 sq ft is the subject of this removal action; the new plant was demolished by the City of Waukegan.

OMC was the world's largest manufacturer and supplier of outboard motors and second largest producer of powerboats. OMC declared bankruptcy in December 2000 and ceased all manufacturing operations in August 2001. The Former Plant 2 site is now owned by the City of Waukegan. EPA began a remedial investigation (RI) at the OMC Plant 2 site in 2004 to determine the nature and extent of contamination in site groundwater, sediment, and soil, and within the OMC Plant 2 building. EPA issued the *Remedial Investigation Report (for) OMC Plant 2* containing the study results and a human health and ecological risk assessment in April 2006 (CH2M Hill 2006a). EPA began a feasibility study (FS) in 2005 to examine site cleanup alternatives designed to protect human health and the environment, and issued the *Feasibility Study Report (for) OMC Plant 2* in December 2006 (CH2M Hill 2006b). EPA issued a Record of Decision (ROD) for the cleanup of soil and building media in September 2007 (EPA 2006). CH2M Hill prepared a Basis of Design in June 2008 that described the remedial objectives and remedial measures to address soil, sediment, and building media (CH2M Hill 2008). CH2M Hill prepared an addendum to the Basis of Design for remediation of soil, sediment, and building media in November 2009 (CH2M Hill 2009). The remediation activities described in this report were conducted in accordance with the ROD, Basis of Design, and addendum to the Basis of Design. Figure 2 shows the OMC Plant 2 building layout.

## 1.2 CONTAMINANTS

The OMC facility used PCB-containing hydraulic and lubricating oils in its production lines beginning in 1961 until 1972, and routinely discharged some of the fluids via sewer lines into Waukegan Harbor, thereby becoming the source of very high-level PCB contamination in harbor sediment. OMC also operated several vapor degreasers at the OMC Plant 2 facility to clean newly made parts with trichloroethene (TCE). Leaking degreasers and/or TCE storage tanks over the years created a TCE groundwater contaminant plume and a dense, non-aqueous phase liquid (DNAPL) beneath the OMC Plant 2 site.

During the RI, many interior surfaces within the 620,000 sq ft of building space of the OMC Plant 2 building was found to be contaminated with PCBs. Concrete floors, abandoned machinery, and porous

and nonporous wall and ceiling surfaces showed levels of PCBs from nondetect (ND) to 750 micrograms per 100 square centimeter ( $\mu\text{g}/100\text{ cm}^2$ ). A portion of the building space thus had PCB levels well above the Toxic Substance Control Act (TSCA) cleanup level [761.61 (a) (4) (iii)] screening criterion of  $10\text{ }\mu\text{g}/100\text{ cm}^2$ .

Other contaminants identified during the RI in building components included lead based paint on metal and other building surfaces, and asbestos containing building materials (ACBM). Universal wastes identified in the building included fluorescent light tubes, other light tubes, ballasts, and mercury switches.

As part of the remedial design, Environmental Design International Inc. (EDI) was contracted to conduct an asbestos and lead survey. This survey identified and quantified asbestos containing materials (ACM) and lead-based paints (LBP) that could be impacted during demolition of the building and recycling of building materials and machinery. Transite containing panels (classified as Category II Non-Friable Asbestos) were also identified in and on the exterior of the building as part of this study.

### 1.3 REMEDY COMPONENTS

Pre-demolition and demolition activities for Phase I of the RA began in December 2009. These included mobilization of equipment to the site, setup of trailers, repair of fencing, hookup of electrical utilities, and other activities related to site mobilization.

Asbestos abatement activities, beginning in February 2010 and completed by May 13, 2010, were conducted by Tecnica Environmental Services (TES), with third-party air monitoring and oversight by Environmental Analysis Inc. (EAI). Reports documenting these activities are included as Appendix D.

Air monitoring stations were established on the site perimeter prior to initiation of demolition activities. The air monitoring stations were operated to collect time-integrated samples of total suspended particulates using PM-10 air samplers one day per week during dry or dusty conditions. These samplers were operated for the duration of the demolition activities.

Building demolition by Brandenburg Industrial Services Company (BISCO) began in May 2010 and was substantively completed by July 2010, except for the Hazardous Materials Storage (HMS) building, which would be demolished in March and April 2011. Building demolition included characterization of waste materials, removal of universal wastes, recycling of structural steel and other lightly contaminated



equipment, removal of contaminated equipment, and demolition and disposal of non-recyclable building components.

## 2.0 CHRONOLOGY OF EVENTS

This section provides a chronology of the remediation activities, which included pre-demolition and demolition activities.

### 2.1 PRE-DEMOLITION ACTIVITIES

Pre-demolition activities included:

- Setup of support facilities was completed, which included three construction trailers located near the south entrance of the site, north of Seahorse Drive. Two trailers were also equipped as offices with associated services, including a printer/copier and computer. This work was initiated in December 2009.
- Establishment of site security was accomplished by repairing the site fence, establishing secure site entrances, and hiring security personnel who would function 24 hours per day, 7 days per week. Onsite security was established in January 2010.
- Installation of a silt fence at the perimeter of the site to control potential runoff of surface water and sediment to nearby water bodies was completed in March 2010.
- A universal waste survey and removal of all universal waste—including fluorescent light bulbs, mercury meters, and other miscellaneous lighting and electrical components was completed in March 2010. Universal waste was sampled for PCBs, was found to be non-TSCA waste, and then was transported offsite for disposal/recycling at Fluorecycle in Ingleside, Illinois. Laboratory data are provided in Appendix A. Waste manifests are provided in Appendix B. The universal waste survey was completed in March 2010.
- Comprehensive sampling of building materials by BISCO took place prior to demolition activities in order to determine dispositions of building materials. This included bulk sampling of porous and soft media (such as concrete, wallboard, wood, brick, and roofing material) and swipe testing of hard surfaces (such as metal and glass). The sampling data report is provided in Appendix C.

Based on this sampling, porous/soft media were characterized as TSCA- or PCB-contaminated for offsite disposal. Hard materials were classified as recyclable, PCB articles, or TSCA waste. Waste profiles were then obtained for the receiving/disposal facilities or recycling facilities. The building materials sampling was completed in March 2010.

- Prior to the initiation of asbestos abatement, cleanup of floor surfaces to remove potential lead-containing debris was conducted in areas of identified lead-painted surfaces. This activity was completed in March 2010.

- Prior to demolition, asbestos abatement that included removal of ACM in the western portion of the building, which had exhibited a TSCA characteristic for PCBs was completed. This material was removed from the site and disposed of as TSCA waste. Asbestos abatement occurred throughout the building interior in negative air containment systems through March and April 2010. Air monitoring was conducted outside of removal areas, and clearance samples were collected prior to removal of containment systems. This included removals of friable ACM (such as thermal insulation), floor tile and mastic, and other friable and non-friable components such as gaskets and laboratory tables. Additional abatement activities on the building exterior or roof addressed transite panels adhering to the building roofing material, as well as window glazing, caulk, and other identified building materials. This activity was completed in May 2010.
- Removal of non-adhered LBP from structural steel in May 2010, was completed prior to removal of recyclable structural steel.

## **2.2 BUILDING DEMOLITION**

Building demolition activities included removals of equipment, interior walls, and debris, followed by removal of structural steel and fixed building components. Large trackhoe-mounted shears and modified bobcats or front end loaders were used to collapse building structures. After building components were collapsed, they were sorted and segregated by material type for disposal or recycling. Areas containing TSCA waste were demolished first, followed by areas with less contamination. Demolition generated PCB-contaminated debris, PCB article waste, TSCA waste, and recyclable metal. This work was initiated in May 2010 and was substantively completed by July 2010.

The Hazardous Materials Storage (HMS) building was left intact for use during the RA as a storage and equipment maintenance area until early 2011. The building was demolished in April 2011. Materials were disposed of as PCB-contaminated debris, or were sorted and salvaged as recyclable metal.

## **3.0 PERFORMANCE STANDARDS AND CONSTRUCTION QUALITY CONTROL**

The performance standards and construction quality control measures included an evaluation of compliance with the bid specifications and design documents. Activities were evaluated as required to ensure that removal objectives had been achieved, that waste materials had been properly characterized prior to abatement/demolition, and that proper disposal or recycling of waste generated by remediation activities had occurred.



Asbestos abatement activities were performed in accordance with a National Emission Standards for Hazardous Air Pollutants (NESHAPS) permit by TES, a licensed and bonded asbestos abatement contractor and minority business enterprise (MBE). EAI provided third-party air monitoring and clearance sampling to ensure that identified materials were removed, that air containment systems were adequately maintained, and that the air quality was not adversely affected by removal actions. An asbestos abatement report and an asbestos air monitoring report are provided in Appendix D. Prior to removal of any containment structure, clearance samples were collected and analyzed for asbestos fibers to ensure that the material met cleanup objectives. SulTRAC's resident engineer also worked with EAI to confirm asbestos location/quantities prior to removal, and inspected each abatement area after completion of removal to verify abatement of ACM in that area.

BISCO employed bulk sampling and wipe sampling techniques to determine concentrations of PCBs in building components. Over 1,000 samples were collected by BISCO and analyzed by Microbac for PCBs using procedures described in the Field Sampling Plan. Data generated from this sampling and analysis effort are included in Appendix C. These data were validated for use for waste characterization.

Air monitoring was conducted at the site perimeter during demolition activities to ensure compliance with National Ambient Air Quality Standards (NAAQS). Samples were collected in accordance with the approved quality assurance project plan (QAPP) using particulate matter (PM)-10 samplers. Air flow was calibrated and data were summarized in field logbooks, with recordings of start and end times and start and end air flows as verified by calibration. Samples were analyzed by STAT Analysis Corporation for PM 10. SulTRAC evaluated data packages and found that the data were acceptable for use. Laboratory data packages for air samples are provided in Appendix E, along with a summary table presenting an analysis of results. Results indicate that NESHAP's fence line objectives were achieved during demolition activities.

Health and safety monitoring occurred during demolition activities. A field dust monitor was used to compare respirable dust concentrations with site-specific exposure limits. When in use, the aerosol monitor was calibrated daily. BISCO also conducted field monitoring using personal samplers during demolition activities to evaluate concentrations of PCBs and toxic metals in the breathing zone.

Daily field reports documented each day's activities. Weekly status meetings evaluated work progress and identified any safety or work concerns. Daily field reports are provided in Appendix F. Photographs were taken to document all phases of remediation activity and the photographic log is provided as Appendix G.

## **4.0 CONSTRUCTION ACTIVITIES**

Construction activities included three main components: (1) materials characterization prior to abatement and demolition, (2) asbestos abatement, and (3) building demolition. In addition, air monitoring was performed during demolition activities. This section discusses these components of the remedy in detail.

### **4.1 MATERIALS CHARACTERIZATION**

Comprehensive sampling was conducted prior to initiating asbestos abatement or building demolition. The purpose of this sampling was to determine concentrations of PCBs in building materials, including ACBM, in order to determine appropriate reuse or disposal requirements.

The site was divided into operating areas for sampling in accordance with designations on Figure 4 of the CH2M Hill Remedial Design. These included:

- Old Diecast Building (ODC)
- New Diecast Building (NDC)
- Tool Room Addition (TR)
- Design Shop (DS)
- Phase 1 Addition (P1)
- Phase 2 Addition (P2)
- Phase 3 Addition (P3)
- Phase 4 Addition (P4)
- Hazardous Materials Storage (HMS).



Samples were collected from hard materials, soft materials, and equipment in each area. Samples from hard surfaces were collected using swipe sampling. Samples from soft surfaces (including concrete and brick) were sampled by coring. Roofing materials were sampled by coring, as these included predominantly soft material (foam insulation), and by treating the entire roof as a structure separate from the designated areas listed above. Finally, bulk sampling for asbestos occurred throughout the building to determine whether materials should be managed as PCB-contaminated or as TSCA waste. Over 1,000 samples were collected by BISCO in accordance with an approved sampling plan and QAPP; the samples were analyzed by Microbac Corporation for PCBs. The summary tables in Appendix C summarize the types and numbers of samples.

The asbestos sampling was used to determine how to manage asbestos waste during abatement. Because all abatement was conducted prior to demolition, results of this sampling were not incorporated into the materials characterization plan.

Figures 3, 4, and 5 show summarized results from sampling building materials for PCBs.

The building materials were then evaluated for management by recycling or disposal. Recycling options were limited to metal containing less than  $100 \mu\text{g}/100 \text{ cm}^2$  PCBs. This included two categories of metal recycling: material with less than  $10 \mu\text{g}/100 \text{ cm}^2$  PCBs, which could be managed as PCB-contaminated, and metal with between 10 and  $100 \mu\text{g}/\text{cm}^2$  PCBs, which could be managed as a PCB article. Metal containing greater than  $100 \mu\text{g}/\text{cm}^2$  PCBs could be managed as a TSCA waste only. Hard, non-metal materials containing more than 10 and less than  $100 \mu\text{g}/\text{cm}^2$  PCBs were also managed as a PCB article, and hard non-metal materials with greater than  $100 \mu\text{g}/\text{cm}^2$  PCBs were designated as TSCA waste.

All other materials were managed as PCB-contaminated demolition debris or TSCA waste. For soft materials (which included porous materials such as concrete, wood, brick, plastic, drywall, and other materials), any material with more than 50 milligrams per kilogram (mg/kg) PCBs was designated for TSCA disposal, and less-contaminated material was designated as PCB-contaminated for disposal.

## 4.2 ASBESTOS ABATEMENT

Asbestos abatement activities were conducted by TES, a licensed abatement and special waste hauler in Illinois. EAI conducted air monitoring during work, clearance sampling after completion of work within containment structures, and continuous oversight of abatement activities (including monitoring negative air pressure within containment structures). Documentation provided by TES and EAI is provided in Appendix D.

Asbestos abatement began in March 2010 and was completed in May 2010. Abatement started in the areas containing TSCA material (the ODC Area) within the building, and then proceeded generally from west to east within the building. In each removal area, a containment structure was first erected prior to removal. A pre-removal inspection was conducted by SulTRAC and an EAI representative to confirm removal items and quantities. Removal was conducted within the structure by certified asbestos workers who would remove asbestos under wetted conditions and place waste in sealed bags. Bags were then placed in a covered roll-off for removal and offsite disposal. After completion of removal within each structure and reception of results of clearance sampling, the area was inspected by the SulTRAC resident engineer and EAI representative to confirm that all asbestos materials had been removed.

Following abatement of the interior portions of the building, abatement proceeded to the exterior components of the building—largely involving removals of windows containing ACM caulk and glazing, caulk on other building components (such as doors and foundation seals), and transite panels. This abatement of non-friable materials was conducted without containment but under wet conditions. Removed components were placed on plastic surfaces and wrapped and sealed before they were placed in roll-offs for removal from the site and disposal.

Materials that were abated in accordance with the remedial design specifications included:

- Thermal insulation on piping, ductwork, and pipe elbows
- Transite panels
- Lab table tops
- Floor tile and mastic
- Storage tank/boiler insulation
- Wrap on air handling units
- Gaskets

- 
- Caulk and glazing
  - Fire doors
  - Flashing
  - Miscellaneous debris.

Table 1 compares the quantities of each type of material removed with the original subcontract estimates. For some types of material, the quantities removed varied considerably from those estimates. This may have been a consequence of inability to adequately inspect all areas because of limited accessibility. However, the total cost of removal closely conformed to the subcontract bid estimate because quantities of some materials removed were lower than originally estimated.

Disposal of ACM proceeded according to characterizations of the ACM as TSCA, PCB containing, or standard ACM.

Approximately 26 tons of TSCA ACM waste was generated at the site between March 11 and May 17, 2010, transported off site, and disposed of as a mixed asbestos/TSCA waste at Heritage Environmental Services secure landfill in Roachdale, Indiana.

A total of 58 loads of non-TSCA asbestos wastes were transported from the site between March 29 and May 24, 2010. Twenty loads were disposed of as ACM at River Prairie Bend Landfill, and 38 loads were disposed of as a PCB article at Waste Management's Countryside Landfill.

Manifest information is provided in Appendix B. Trucking logs are provided in Appendix H.



**TABLE 1 – ASBESTOS ABATEMENT MATERIALS AND QUANTITIES**

<b>Asbestos Item</b>	<b>Units</b>	<b>Bid Quantities</b>	<b>Verified Removal Quantities</b>
Remove and Dispose of Asbestos Floor Tile and Mastic	SF	34,600	24,611
Remove and Dispose of Lab Table Tops	SF	5--	500
Remove and Dispose of Asbestos Transite Panels (Interior and Exterior)	SF	136,476	96,665
Remove and Dispose of Asbestos Electrical Box Transite Panels	EA	150	0
Remove and Dispose of Asbestos Hard Fittings on Pipes (3", 4", 6")	EA	1,000	1,596
Remove and Dispose of Asbestos Hard Fittings on Pipes (8" and 10")	EA	220	1,001
Remove and Dispose of Asbestos Hard Fittings on Pipes (12" and 16")	EA	100	418
Remove and Dispose of Asbestos Pipe TSI (3" and 4")	LF	10,000	13,528
Remove and Dispose of Asbestos Pipe TSI (6")	LF	5,000	6,272
Remove and Dispose of Asbestos Pipe TSI (8" or 10")	LF	8,000	9,948
Remove and Dispose of Asbestos Pipe TSI (12" or 16")	LF	7,000	6,188
Remove and Dispose of Boiler Pipe (18")	LF	60	878
Remove and Dispose of Asbestos Storage Tank TSI	SF	500	3,304
Remove and Dispose of Asbestos Canvas Wrap on AHUs and Ductwork TSI	SF	10,300	7345
Remove and Dispose of Asbestos Door Gaskets	LF	336	36
Remove and Dispose of Asbestos Exterior Caulk and Glazing	LF	98,110	75699
Remove and Dispose of Asbestos Concrete Expansion Joints	LF	1,150	490
Remove and Dispose of Asbestos Tank Gaskets	EA	25	47
Remove and Dispose of Asbestos Heating Unit Insulation	SF	1,200	1,323
Remove and Dispose of Asbestos Insulated Doors	EA	100	21
Remove and Dispose of Asbestos Roof Flashing	LF	225	470
Remove and Dispose of Green Debris	LF	25	25

Notes:

AHU Air Handling Unit  
EA Each  
LF Linear feet  
SF Square feet  
TSE Thermal system insulation  
" Inches



### 4.3 DEMOLITION

Demolition activities began in May 2010 and were completed in April 2011. Prior to initiation of demolition activities, universal waste was removed from the building.

Some pre-demolition activities were conducted to support asbestos abatement activities and to ensure safety during demolition; these included waste characterization, establishment of 24-hour site security, repair of the site fence, and installation of a silt fence to control and filter surface water runoff.

A mercury release was noted on March 1, 2010, when a small amount of liquid mercury was observed on the floor in Room 15 during preparation for ACM abatement. The area was segregated and sealed to eliminate potential exposure to site personnel. On April 5, 2010, BISCO abated the liquid mercury using a Mercury Spill Kit. BISCO then verified abatement of mercury in that area by sampling for mercury vapor using Draeger tubes; samples in both tubes were non-detect for mercury.

Universal waste included primarily fluorescent overhead lighting fixtures and ballasts containing mercury vapor and PCBs, lead and other metal-containing batteries, and mercury switches. Non-recyclable materials were consolidated and analyzed for PCBs before undergoing removal and offsite disposal and/or recycling at Fluorcycle in Ingleside, Illinois.

BISCO evaluated decontamination procedures for cleaning painted metal surfaces or surfaces contaminated with PCBs exceeding a concentration of  $10 \mu\text{g}/100 \text{ cm}^2$ . Methods evaluated included sandblasting and spraying with chemical solvents. Costs of decontamination were evaluated and determined to be higher than the costs of managing the material as a PCB article or TSCA waste, with likelihood of decontamination success uncertain. As a result, SulTRAC and BISCO agreed to proceed with demolition and salvage without decontaminating materials containing PCBs. However, to allow for more cost-effective materials management, recycling painted steel that contained less than  $10 \mu\text{g}/100 \text{ cm}^2$  of PCBs was found to be cost effective; likewise managing hard materials as a PCB article (with PCB levels exceeding  $10 \mu\text{g}/100 \text{ cm}^2$  but less than  $100 \mu\text{g}/100 \text{ cm}^2$ ) was determined to be cost effective. These decisions led to reduced costs, based on the design quantities.

Areas identified to contain LBP in the CH2M Hill design were located, and loose paint was removed mechanically or by vacuuming in the designated areas. Loose paint was vacuumed or swept after removal in each area, and after characterization of the debris for TCLP lead and PCBs, the LBP debris was disposed of off site.

An empty, rooftop-mounted transformer containing PCBs was removed, encapsulated in plastic, and stored near the HMS building prior to transport and offsite disposal at Tonkawa, Oklahoma.

Demolition activities began with removal of mechanical equipment and interior (non-structural) debris. This material was removed for disposal or salvage depending on the characterization as TSCA waste, contaminated demolition debris, or recyclable metal.

Demolition then proceeded with collapse of sections containing TSCA materials. Each building section was collapsed by shearing the supporting steel structure and using shears to separate and cut metal and other materials into appropriate sizes for disposal as TSCA waste.

Demolition of non-TSCA portions of the building continued, and the same general approach was used to first collapse the building by shearing structural supports, and then sizing and sorting materials for offsite recycling or disposal.

Demolition activities were conducted in a manner to minimize releases. A water truck equipped with a water cannon was used to wet materials during demolition.

During removal of the building structure, asbestos was identified in two areas (the TR Boiler Room and near the old laboratory) that had not been accessible until demolition started. Containment structures were built around these areas, and the asbestos was then removed under controlled conditions by asbestos workers.



Table 2 compares the actual quantities of materials that underwent recycling and disposal with estimated quantities in the original design. The actual quantities varied somewhat from the original design estimates largely due to reclassifications of materials for management during demolition. These reclassifications essentially the Unit Cost categories of uncontaminated and painted salvageable metal, which were managed in the appropriate categories based on recycling requirements. In addition, items not identified in the design or identified from changed site conditions included the PCB transformer (noted above) and the mercury abatement in Room 15.

**TABLE 2 – BUILDING DEMOLITION MATERIAL DISPOSITION**

Bid Item	Design Estimate	Actual	Difference
Recycling of uncontaminated salvageable metal	1,100 tons	0	(1,100 tons)
Recycling of painted salvageable metal	7,000 tons		(7,000 tons)
TSCA transport and disposal	800 tons	566 tons	(234 tons)
Subtitle D transport and disposal	12,000 tons	12,240 tons	240 tons
Recycling of PCB-contaminated painted steel	0 tons	4,790 tons	4,790 tons
Disposal of hard debris as PCB article	0 tons	906 tons	906 tons
Transformer disposal	None	1 unit	NA
Mercury cleanup	None	1 unit	NA

Materials management also included transportation and offsite disposal or recycling. The following facilities were used for disposal or recycling of materials generated during demolition. Copies of Manifests and Manifest Logs are included in Appendix B, and Waste Log Summaries are provided in Appendix H.

- Subtitle D disposal      Veolia Environmental Services, Zion, Illinois
- Subtitle D disposal      Republic Services, Racine, Wisconsin
- TSCA disposal      Heritage, Environmental Services, Roachdale, Indiana
- Disposal of PCB articles      Waste Management, Countryside Landfill, Grayslake, Illinois
- Recycling steel      US Steel, Gary Works, Gary, Indiana
- Transformer disposal      Transformer Disposal Specialists,, Penkawa, Oklahoma City,

#### 4.4 AIR MONITORING DURING DEMOLITION

SulTRAC conducted air monitoring during demolition activities that included (1) personal dust monitoring and (2) periodic perimeter PM10 sampling.

Personal dust monitoring was conducted from March to June 2010 using two DataRAM 4 dust monitors. One dust monitor was established in the interior of the building during building materials sampling and demolition activities. The second dust monitor was installed near the SulTRAC trailer to monitor dust exposures in this work zone. Data were recorded and reviewed to ensure no excessive dust exposures occurred. In addition, the data screens on the dust monitors were visually monitored to ensure no excessive dust exposures occurred. The dust monitors were eventually phased out when entries to the building ceased, thus reducing exposures. Based on the recorded data and visual monitoring, no excessive personnel exposures to dust occurred. The recorded data are not provided but are available upon request. Additional personnel monitoring was conducted during demolition activities by a demolition subcontractor, and their report is included in Appendix E.

Periodic perimeter PM10 sampling was conducted on a weekly basis, during site dry conditions. No samples were collected during weeks of daily precipitation. Figure 6 shows the air monitoring station locations. The PM10 samples were collected using Volumetric Flow Controlled (VFC) PM10 Monitors for Ambient Air obtained from TISCH Environmental, Inc., of Cleves, Ohio. Five PM10 sampling units were established at the site perimeter: at the midpoint of the property boundary, and on the north (AS-N1), east (AS-E1), west (AS-W1), and south (AS-S1). One duplicate PM10 unit was established adjacent to the south unit and labeled AS-S1D. The units operated at a flow rate of approximately 1.13 cubic meters continuous. The samples were collected on micro-quartz filter media obtained by STAT Analytical Corporation of Chicago, Illinois. The PM10 sample units AS-N1, AS-E1, and AS-W1 were powered with portable generators. Units AS-S1 and AS-S1D were powered with electricity from the site temporary supply.

The tables in Appendix E summarizes the laboratory analytical results and the calculated concentrations based on the PM10 unit flow rate. No exceedances of the NAAQS standard of 150 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) occurred during the demolition phase of the project. A few isolated exceedances of the NAAQS occurred during soil remediation activities, but these exceedances were attributed to generator malfunction or extreme wind conditions, not to site conditions.



Meteorological data were obtained from a weather station established on the south central portion of the site. The weather station recorded at both 2 and 10 meters above ground surface the horizontal and vertical wind speeds, wind direction, and temperature. In addition, the weather station recorded date, time, and solar radiation. Data from the weather station were used to compute the VFC flow rates during sampling intervals, and were recorded in the event air modeling would be warranted. The weather data are provided in Appendix I

## **5.0 FINAL INSPECTION**

Inspections were conducted periodically to document performance of activities in accordance with plans and in a safe manner. Inspections occurred at the beginning of abatement activities and upon completion of abatement in containment areas as the work progressed. Following completion of abatement activities, inspection was conducted by the SulTRAC residential engineer and the EAI asbestos project manager to ensure that all asbestos materials identified in the design and during the course of abatement had been removed.

Inspection of the building demolition activities was conducted on an ongoing basis from May 2010 through July 2010, when the demolition was substantively complete. Additional demolition activities took place in March 2011 to address the HMS Building. A final inspection occurred in March 2011 at completion of those demolition activities.

One building remains on the site, the Triax Building, and it is still actively used for ongoing remediation activities related to the Harbor Sediment Cleanup. Removal of this building was not in the scope of the demolition remedial design.

## **6.0 CERTIFICATION THAT REMEDY IS OPERATIONAL AND FUNCTIONAL**

The remedy involved abatement of asbestos from the OMC Plant 2 building, subsequent demolition of the building, and recycling or disposal of demolition materials. These activities have been completed, and all materials have been removed from the site and have undergone disposal or recycling in accordance with the design requirements.

## 7.0 OPERATION AND MAINTENANCE

No requirement of operation and maintenance was specified because the remedy involved removal of the building and ancillary structures.

## 8.0 CONTACT INFORMATION

The contacts for this project include:

- Kevin Adler, Project Manager, USEPA Region 5, 77 W. Jackson Avenue, Chicago, IL 60604.  
312-886-7078
- Tom Hahne, Project Manager, SulTRAC, 37<sup>th</sup> Floor, 1 S. Wacker Drive, Chicago, IL 60606  
312 201-7474

## 9.0 REFERENCES

- CH2M Hill. 2006a. *Remedial Investigation Report OMC Plant 2, Waukegan, Illinois*. April.
- CH2M Hill. 2006b. *Feasibility Study Report OMC Plant 2, Waukegan, Illinois*. December.
- CH2M Hill. 2008. *Basis Of Design Report For Remediation of Soil, Sediment, and Building Media, Final Design, OMC Plant 2, Waukegan, Illinois*. June.
- CH2M Hill. 2009. *Addendum to the Basis Of Design Report For Remediation of Soil, Sediment, and Building Media, Final Design, OMC Plant 2, Waukegan, Illinois*. November.
- United States Environmental Protection Agency (EPA). 2006. *Record of Decision for the Cleanup of Soil and Building Media, OMC Plant 2 Superfund Site*.



## FIGURES



# LEGEND

Site Location

0 2,000 4,000 Feet

SOURCE: AIRPHOTO ISGS 2005

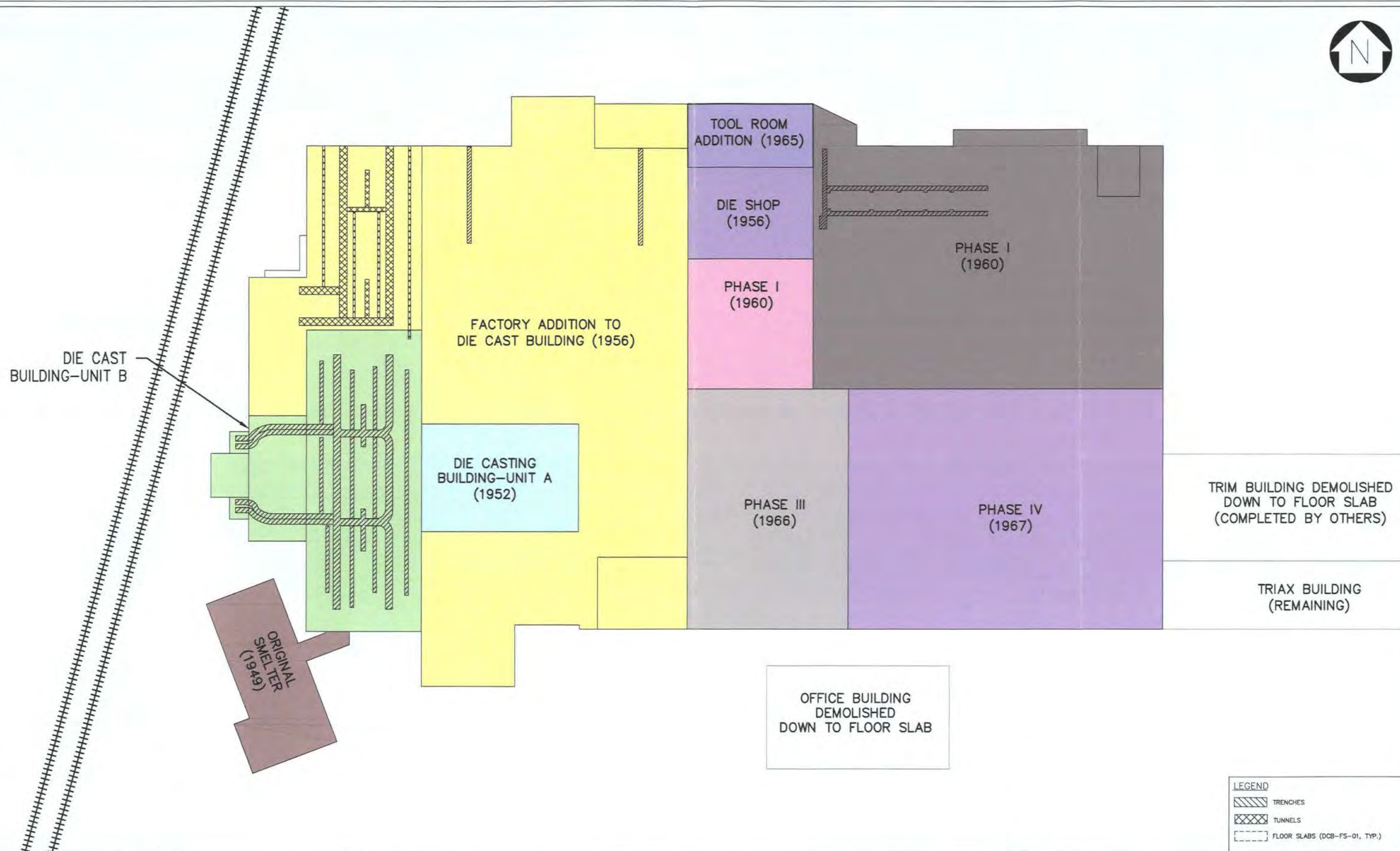


OMC PLANT 2 SITE  
WAUKEGAN, ILLINOIS

**FIGURE 1**  
SITE LOCATION

**ST** SuITRAC





7/29/2011

REVISIONS			DESIGNED	DATE
NO.	DATE	DESCRIPTION	DRAWN	DATE
			MR	
			CHECKED	
			DATE	JULY 2008



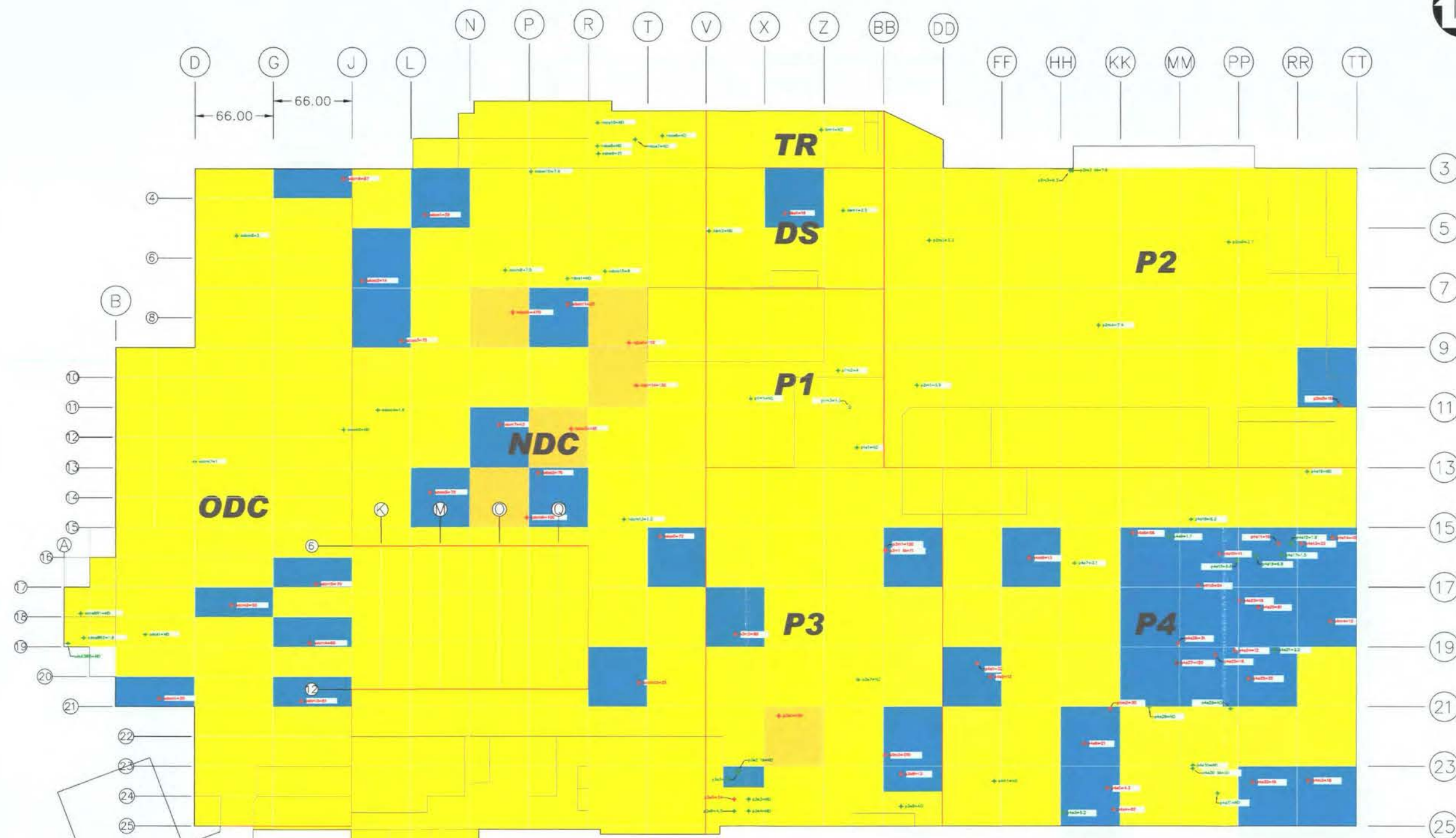
OMC PLANT 2 SITE  
WAUKEGAN, ILLINOIS  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

SCALES:  
HORIZONTAL SCALE:  
NA  
VERTICAL SCALE:  
NA

FIGURE 2  
SITE PLANT LAYOUT

WORK ASSIGNMENT NO.
DRAWING NO. 2
SHEET NO. 2 OF 6





#### LEGEND

	PCB CONTAMINATED		SAMPLE <10 ug/100cm2
	PCB ARTICLE		SAMPLE >10 ug/100cm2
	TSCA		

#### REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED \_\_\_\_\_  
DRAWN MB  
CHECKED \_\_\_\_\_  
DATE 7/25/2011



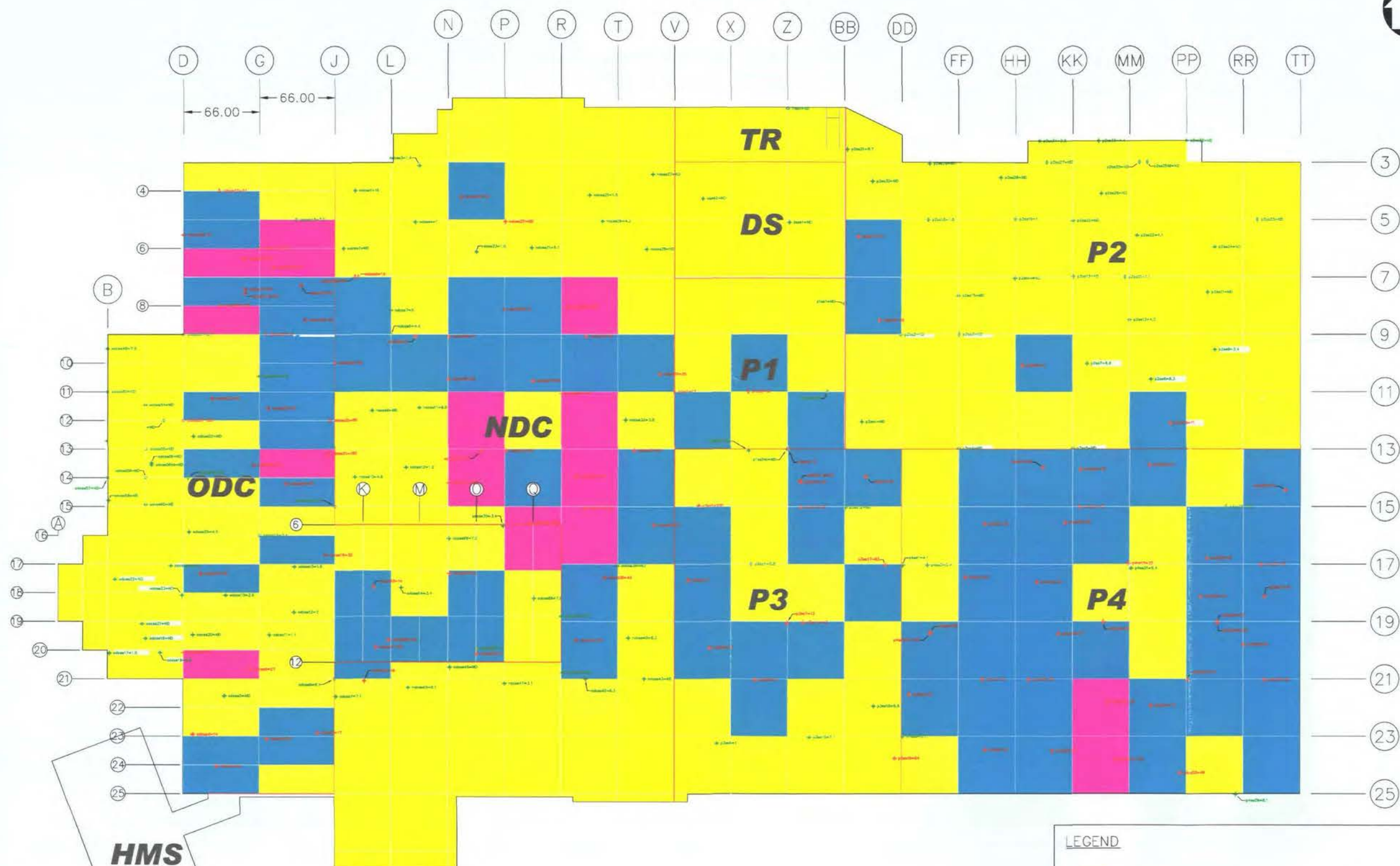
OMC PLANT 2 SITE  
WAUKEGAN, ILLINOIS  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

SCALES:  
HORIZONTAL SCALE:  
NA  
VERTICAL SCALE:  
NA

FIGURE 3  
PCB SAMPLE RESULTS  
STRUCTURAL COMPONENTS

WORK ASSIGNMENT NO.  
DRAWING NO.  
3  
SHEET NO.  
3 OF 6





#### LEGEND

	PCB CONTAMINATED		SAMPLE <10 ug/100cm2
	PCB ARTICLE		SAMPLE >10 ug/100cm2
	TSCA		

#### REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED \_\_\_\_\_  
DRAWN MB  
CHECKED \_\_\_\_\_  
DATE 7/25/2011



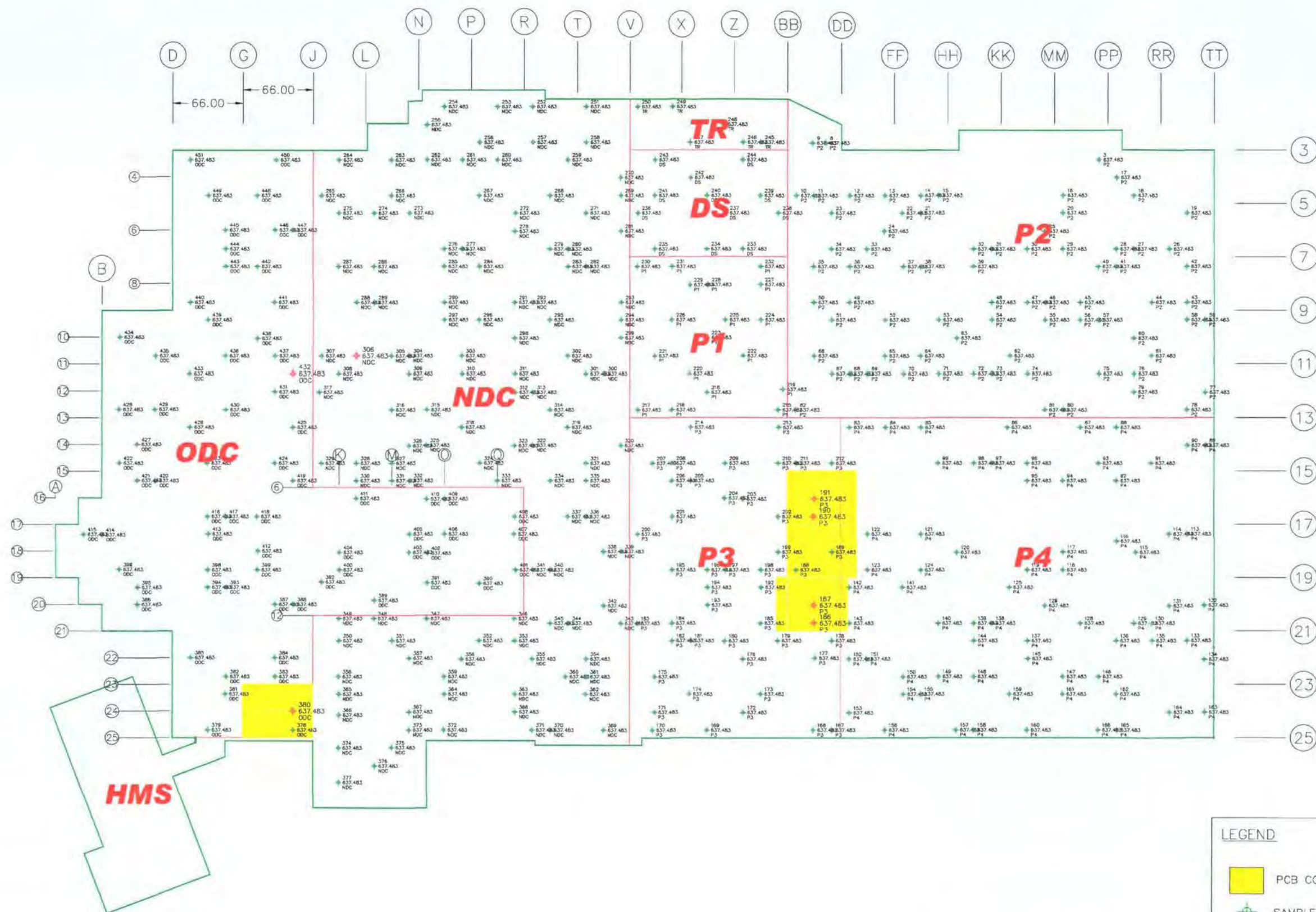
OMC PLANT 2 SITE  
WAUKEGAN, ILLINOIS  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

SCALES:  
HORIZONTAL SCALE:  
NA  
VERTICAL SCALE:  
NA

FIGURE 4  
PCB SAMPLE RESULTS  
MACHINERY

WORK ASSIGNMENT NO.  
DRAWING NO.  
4  
SHEET NO.  
4 OF 8





#### LEGEND

- PCB CONTAMINATED
- SAMPLE <10 ug/100cm<sup>2</sup>
- SAMPLE >10 ug/100cm<sup>2</sup>

#### REVISIONS

NO.	DATE	DESCRIPTION

DESIGNED  
DRAWN MB  
CHECKED  
DATE 7/25/2011

**ST** SulTRAC



OMC PLANT 2 SITE  
WAUKEGAN, ILLINOIS  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5

#### SCALES:

HORIZONTAL SCALE:  
NA  
VERTICAL SCALE:  
NA

FIGURE 5  
PBC SAMPLE RESULTS  
ROOF MATERIALS

WORK ASSIGNMENT NO.

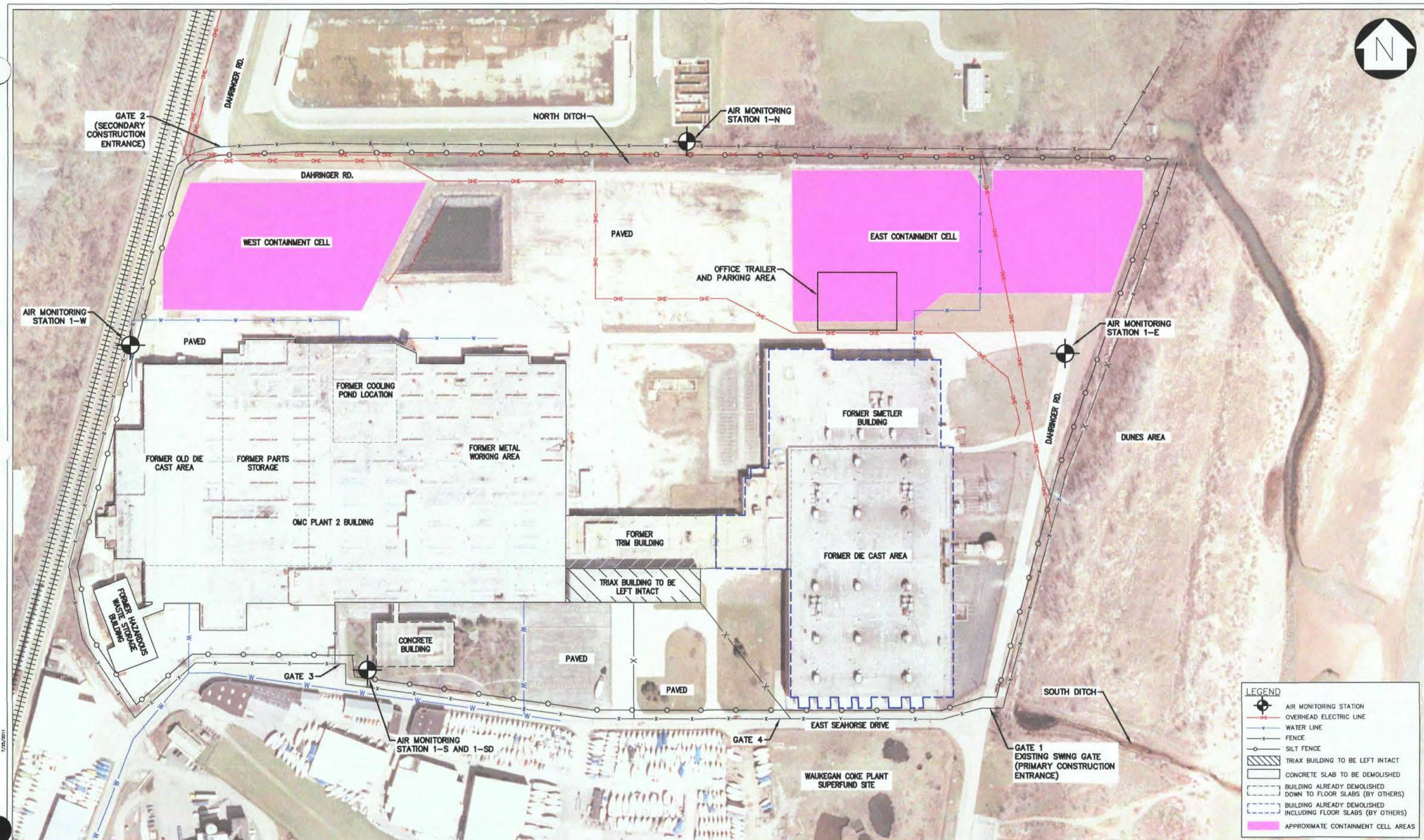
DRAWING NO.

5

SHEET NO.

5 OF 6





7/25/2011

REVISIONS		
NO.	DATE	DESCRIPTION

DESIGNED \_\_\_\_\_  
 DRAWN MB  
 CHECKED \_\_\_\_\_  
 DATE 7/25/2011



OMC PLANT 2 SITE  
 WAUKEGAN, ILLINOIS  
 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 REGION 5

SCALES:  
 HORIZONTAL SCALE:  
 NA  
 VERTICAL SCALE:  
 NA

**FIGURE 6**  
**OMC AIR MONITORING STATION LOCATIONS**

WORK ASSIGNMENT NO. \_\_\_\_\_  
 DRAWING NO. 6  
 SHEET NO. \_\_\_\_\_  
 6 OF 6





**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

April 14, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan

STAT Project No: 10040321

Dear Tom Hahne:

STAT Analysis received 3 samples for the referenced project on 4/13/2010 4:35:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10040321

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10040321-001A	South Wall ODC		4/13/2010 10:15:00 AM	4/13/2010
10040321-002A	East Wall ODC		4/13/2010 10:30:00 AM	4/13/2010
10040321-003A	South Wall CA9		4/13/2010 10:50:00 AM	4/13/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: April 14, 2010

Date Printed: April 14, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan

Lab Order: 10040321

Lab ID: 10040321-001

Collection Date 4/13/2010 10:15:00 AM

Client Sample ID: South Wall ODC

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Solid</b>	<b>SW8082 (SW3580A)</b>		Prep Date: <b>4/13/2010</b>		Analyst: <b>GVC</b>	
Aroclor 1016	ND	0.58		mg/Kg	1	4/14/2010
Aroclor 1221	ND	0.58		mg/Kg	1	4/14/2010
Aroclor 1232	ND	0.58		mg/Kg	1	4/14/2010
Aroclor 1242	ND	0.58		mg/Kg	1	4/14/2010
Aroclor 1248	ND	0.58		mg/Kg	1	4/14/2010
Aroclor 1254	18	0.58		mg/Kg	1	4/14/2010
Aroclor 1260	ND	0.58		mg/Kg	1	4/14/2010

Lab ID: 10040321-002

Collection Date 4/13/2010 10:30:00 AM

Client Sample ID: East Wall ODC

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Solid</b>	<b>SW8082 (SW3580A)</b>		Prep Date: <b>4/13/2010</b>		Analyst: <b>GVC</b>	
Aroclor 1016	ND	0.66		mg/Kg	1	4/14/2010
Aroclor 1221	ND	0.66		mg/Kg	1	4/14/2010
Aroclor 1232	ND	0.66		mg/Kg	1	4/14/2010
Aroclor 1242	ND	0.66		mg/Kg	1	4/14/2010
Aroclor 1248	ND	0.66		mg/Kg	1	4/14/2010
Aroclor 1254	17	0.66		mg/Kg	1	4/14/2010
Aroclor 1260	ND	0.66		mg/Kg	1	4/14/2010

Lab ID: 10040321-003

Collection Date 4/13/2010 10:50:00 AM

Client Sample ID: South Wall CA9

Matrix: Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Solid</b>	<b>SW8082 (SW3580A)</b>		Prep Date: <b>4/13/2010</b>		Analyst: <b>GVC</b>	
Aroclor 1016	ND	0.64		mg/Kg	1	4/14/2010
Aroclor 1221	ND	0.64		mg/Kg	1	4/14/2010
Aroclor 1232	ND	0.64		mg/Kg	1	4/14/2010
Aroclor 1242	ND	0.64		mg/Kg	1	4/14/2010
Aroclor 1248	ND	0.64		mg/Kg	1	4/14/2010
Aroclor 1254	0.73	0.64		mg/Kg	1	4/14/2010
Aroclor 1260	ND	0.64		mg/Kg	1	4/14/2010

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

Nº: 830815

Page : of

[illegible]



**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 4/13/2010 4:35:00 PM

Work Order Number 10040321

Received by: JJM

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature 1.0 °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

May 20, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan, IL

STAT Project No: 10050046

Dear Tom Hahne:

STAT Analysis received 10 samples for the referenced project on 5/4/2010 9:55:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan, IL  
**Lab Order:** 10050046

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10050046-001A	AS-S1 05-01-10	513.11 m <sup>3</sup>	5/1/2010	5/4/2010
10050046-002A	AS-S1D 05-01-10	877.76 m <sup>3</sup>	5/1/2010	5/4/2010
10050046-003A	AS-W1 05-01-10	883.61 m <sup>3</sup>	5/1/2010	5/4/2010
10050046-004A	AS-N1 05-01-10	887.79 m <sup>3</sup>	5/1/2010	5/4/2010
10050046-005A	AS-E1 05-01-10	858.46 m <sup>3</sup>	5/1/2010	5/4/2010
10050046-006A	AS-S1 05-02-10	1366.51 m <sup>3</sup>	5/2/2010	5/4/2010
10050046-007A	AS-S1D 05-02-10	1350.55 m <sup>3</sup>	5/2/2010	5/4/2010
10050046-008A	AS-W1 05-02-10	714.15 m <sup>3</sup>	5/2/2010	5/4/2010
10050046-009A	AS-N1 05-02-10	1507.78 m <sup>3</sup>	5/2/2010	5/4/2010
10050046-010A	AS-E1 05-02-10	1140.85 m <sup>3</sup>	5/2/2010	5/4/2010

---



---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan, IL  
**Lab Order:** 10050046

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn:

AS-S1 05-01-10 (10050046-001)  
AS-W1 05-01-10 (10050046-003)  
AS-E1 05-01-10 (10050046-005)  
AS-S1D 05-02-10 (10050046-007)  
AS-E1 05-02-10 (10050046-010)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: May 20, 2010

Date Printed: May 20, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan, IL

Lab Order: 10050046

Lab ID: 10050046-001

Collection Date: 5/1/2010

Client Sample ID: AS-S1 05-01-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	8800	100		µg/filter 1	5/5/2010

Lab ID: 10050046-002

Collection Date: 5/1/2010

Client Sample ID: AS-S1D 05-01-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	9500	100		µg/filter 1	5/5/2010

Lab ID: 10050046-003

Collection Date: 5/1/2010

Client Sample ID: AS-W1 05-01-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	8900	100		µg/filter 1	5/5/2010

Lab ID: 10050046-004

Collection Date: 5/1/2010

Client Sample ID: AS-N1 05-01-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	7500	100		µg/filter 1	5/5/2010

Lab ID: 10050046-005

Collection Date: 5/1/2010

Client Sample ID: AS-E1 05-01-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	7800	100		µg/filter 1	5/5/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: May 20, 2010

Date Printed: May 20, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan, IL

Lab Order: 10050046

Lab ID: 10050046-006

Collection Date: 5/2/2010

Client Sample ID: AS-S1 05-02-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	8800	100		µg/filter 1	5/5/2010

Lab ID: 10050046-007

Collection Date: 5/2/2010

Client Sample ID: AS-S1D 05-02-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	9700	100		µg/filter 1	5/5/2010

Lab ID: 10050046-008

Collection Date: 5/2/2010

Client Sample ID: AS-W1 05-02-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	9300	100		µg/filter 1	5/5/2010

Lab ID: 10050046-009

Collection Date: 5/2/2010

Client Sample ID: AS-N1 05-02-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	11400	100		µg/filter 1	5/5/2010

Lab ID: 10050046-010

Collection Date: 5/2/2010

Client Sample ID: AS-E1 05-02-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/4/2010	Analyst: JP
Particulate Matter (as PM10)	5800	100		µg/filter 1	5/5/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded





**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received:

**5/4/2010 9:55:00 AM**

Work Order Number **10050046**

Received by: **CDF**

Checklist completed by:

Signature

Date

**5/4/10**

Reviewed by:

Initials

Date

**KL**

**5/4/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

PM10 AIR SAMPLE DATA  
OMC, WAUKEGAN, IL

No	Date	Sample location	Flow Volume - Standard Air (m3)
1	5/1/2010	AS-E1	858.46
		AS-N1	887.79
		AS-WI	883.61
		AS-S1	513.11
		AS-S1D	877.76
2	5/2/2010	AS-E1	1,140.85
		AS-N1	1,507.78
		AS-WI	714.15
		AS-S1	1,366.51
		AS-S1D	1,350.55
3	5/3/2010	AS-E1	1,508.03
		AS-N1	1,461.48
		AS-WI	1,073.88
		AS-S1	912.70
		AS-S1D	942.18
4	5/4/2010	AS-E1	1,318.23
		AS-N1	1,312.78
		AS-WI	1,353.78
		AS-S1	1,135.40
		AS-S1D	1,126.20
5	5/18/2010	AS-E1	
		AS-N1	
		AS-WI	
		AS-S1	
		AS-S1D	



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 08, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan

STAT Project No 10050117

Dear Tom Hahne:

STAT Analysis received 10 samples for the referenced project on 5/6/2010 9:35:00 AM. The analytical results are presented in the following report.

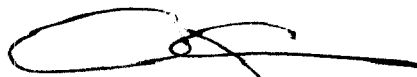
This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 10050117

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10050117-001A	AS-W1 05-03-10	1073.88 m <sup>3</sup>	5/3/2010	5/6/2010
10050117-002A	AS-S1 05-03-10	912.70 m <sup>3</sup>	5/3/2010	5/6/2010
10050117-003A	AS-S1D 05-03-10	942.18 m <sup>3</sup>	5/3/2010	5/6/2010
10050117-004A	AS-E1 05-03-10	1508.03 m <sup>3</sup>	5/3/2010	5/6/2010
10050117-005A	AS-N1 05-03-10	1461.48 m <sup>3</sup>	5/3/2010	5/6/2010
10050117-006A	AS-S1 05-04-10	1135.40 m <sup>3</sup>	5/4/2010	5/6/2010
10050117-007A	AS-S1D 05-04-10	1126.20 m <sup>3</sup>	5/4/2010	5/6/2010
10050117-008A	AS-E1 05-04-10	1318.23 m <sup>3</sup>	5/4/2010	5/6/2010
10050117-009A	AS-W1 05-04-10	1353.78 m <sup>3</sup>	5/4/2010	5/6/2010
10050117-010A	AS-N1 05-04-10	1312.78 m <sup>3</sup>	5/4/2010	5/6/2010

---

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 10050117

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-S1D 05-04-10 (10050117-007)



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 08, 2010

Date Printed: June 08, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan

Lab Order: 10050117

Lab ID: 10050117-001

Collection Date 5/3/2010

Client Sample ID:AS-W1 05-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	12900	100		µg/filter 1	5/7/2010

Lab ID: 10050117-002

Collection Date 5/3/2010

Client Sample ID:AS-S1 05-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	16300	100		µg/filter 1	5/7/2010

Lab ID: 10050117-003

Collection Date 5/3/2010

Client Sample ID:AS-S1D 05-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	16100	100		µg/filter 1	5/7/2010

Lab ID: 10050117-004

Collection Date 5/3/2010

Client Sample ID:AS-E1 05-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	15500	100		µg/filter 1	5/7/2010

Lab ID: 10050117-005

Collection Date 5/3/2010

Client Sample ID:AS-N1 05-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	16000	100		µg/filter 1	5/7/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 08, 2010

Date Printed: June 08, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan

Lab Order: 10050117

Lab ID: 10050117-006

Collection Date 5/4/2010

Client Sample ID:AS-S1 05-04-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	53500	100		µg/filter 1	5/7/2010

Lab ID: 10050117-007

Collection Date 5/4/2010

Client Sample ID:AS-S1D 05-04-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	50400	100		µg/filter 1	5/7/2010

Lab ID: 10050117-008

Collection Date 5/4/2010

Client Sample ID:AS-E1 05-04-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	20400	100		µg/filter 1	5/7/2010

Lab ID: 10050117-009

Collection Date 5/4/2010

Client Sample ID:AS-W1 05-04-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	26000	100		µg/filter 1	5/7/2010

Lab ID: 10050117-010

Collection Date 5/4/2010

Client Sample ID:AS-N1 05-04-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/6/2010	Analyst: JP
Particulate Matter (as PM10)	27600	100		µg/filter 1	5/7/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831249

Page : of

[illegible]



**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **5/6/2010 9:35:00 AM**

Work Order Number **10050117**

Received by: **CDF**

Checklist completed by:

Signature

Date

**5/6/10**

Reviewed by:

Initials

Date

**CE**

**5/6/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

PM10 AIR SAMPLE DATA  
OMC, WAUKEGAN, IL

No	Date	Sample location	Flow Volume - Standard Air (m3)
1	5/1/2010	AS-E1	858.46
		AS-N1	887.79
		AS-W1	883.61
		AS-S1	513.11
		AS-S1D	877.76
2	5/2/2010	AS-E1	1,140.85
		AS-N1	1,507.78
		AS-W1	714.15
		AS-S1	1,366.51
		AS-S1D	1,350.55
3	5/3/2010	AS-E1	1,508.03
		AS-N1	1,461.48
		AS-W1	1,073.88
		AS-S1	912.70
		AS-S1D	942.18
4	5/4/2010	AS-E1	1,318.23
		AS-N1	1,312.78
		AS-W1	1,353.78
		AS-S1	1,135.40
		AS-S1D	1,126.20
5	5/18/2010	AS-E1	
		AS-N1	
		AS-W1	
		AS-S1	
		AS-S1D	

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 03, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053, OMC, Waukegan

STAT Project No: 10050538

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 5/20/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053, OMC, Waukegan  
**Lab Order:** 10050538

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10050538-001A	AS-W1 05-18-10		5/18/2010 7:30:00 AM	5/20/2010
10050538-002A	AS-N1 05-18-10		5/18/2010 7:03:00 AM	5/20/2010
10050538-003A	AS-E1 05-18-10		5/18/2010 7:14:00 AM	5/20/2010
10050538-004A	AS-S1D 05-18-10		5/18/2010 7:39:00 AM	5/20/2010
10050538-005A	AS-S1 05-18-10		5/18/2010 7:38:00 AM	5/20/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 03, 2010

Date Printed: June 03, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053, OMC, Waukegan

Lab Order: 10050538

Lab ID: 10050538-001

Collection Date 5/18/2010 7:30:00 AM

Client Sample ID:AS-W1 05-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/20/2010	Analyst: JP	
Particulate Matter (as PM10)	22700	100		µg/filter 1		5/25/2010

Lab ID: 10050538-002

Collection Date 5/18/2010 7:03:00 AM

Client Sample ID:AS-N1 05-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/20/2010	Analyst: JP	
Particulate Matter (as PM10)	9600	100		µg/filter 1		5/25/2010

Lab ID: 10050538-003

Collection Date 5/18/2010 7:14:00 AM

Client Sample ID:AS-E1 05-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/20/2010	Analyst: JP	
Particulate Matter (as PM10)	28100	100		µg/filter 1		5/25/2010

Lab ID: 10050538-004

Collection Date 5/18/2010 7:39:00 AM

Client Sample ID:AS-S1D 05-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/20/2010	Analyst: JP	
Particulate Matter (as PM10)	16200	100		µg/filter 1		5/25/2010

Lab ID: 10050538-005

Collection Date 5/18/2010 7:38:00 AM

Client Sample ID:AS-S1 05-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/20/2010	Analyst: JP	
Particulate Matter (as PM10)	21500	100		µg/filter 1		5/25/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 830855

Page : of

Company: <u>TECHNICAL ANALYTICAL</u>								P.O. No.:		<div>Turn Around:</div> <div>Results Needed: am/pm</div>										
Project Number: <u>10370908133</u>				Client Tracking No.:				Quote No.:												
Project Name: <u>2 MC</u>																				
Project Location: <u>WATERGATE</u>																				
Sampler(s): <u>MARCEL DASH</u>				Report To: <u>Tom Hays</u>				Phone: _____		<div>1 1</div>										
				Fax: _____																
QC Level: <u>1</u> <u>2</u> <u>3</u> <u>4</u>				e-mail: _____																
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers											Remarks	Lab No.
AS-W1 05-18-10		05-18-10	0730	Filter	X			1	X							Q0234031	001			
AS-N1 05-18-10			0700		X			1	X							Q0234033	002			
AS-E1 05-18-10			0714		X			1	X							Q0234032	003			
AS-SID 05-18-10			0739		X			1	X							Q0234070	004			
AS-S1 05-18-10			0733		X			1	X							Q0234007	005			
Relinquished by: (Signature) _____		Date/Time: <u>05/18/10 1700</u>		Comments:														Laboratory Work Order No.:		
Received by: (Signature) _____		Date/Time: <u>5/20/10 0930</u>		<div>Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other</div>														Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Relinquished by: (Signature) _____		Date/Time: _____																		
Received by: (Signature) _____		Date/Time: _____																		
Relinquished by: (Signature) _____		Date/Time: _____																		
Received by: (Signature) _____		Date/Time: _____		Temperature: <u>4</u> °C																



## Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received: 5/20/2010 9:30:00 AM

Work Order Number 10050538

Received by: CDF

Checklist completed by:

Signature

Date

5/20/10

Reviewed by:

Initials

Date

KL

5/21/10

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted

☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 03, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053-05, OMC

STAT Project No: 10050726

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 5/27/2010 9:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053-05, OMC  
**Lab Order:** 10050726

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10050726-001A	AS-N1 05-25-10		5/25/2010	5/27/2010
10050726-002A	AS-E1 05-25-10		5/25/2010	5/27/2010
10050726-003A	AS-S1 05-25-10		5/25/2010	5/27/2010
10050726-004A	AS-S1D 05-25-10		5/25/2010	5/27/2010
10050726-005A	AS-W1 05-25-10		5/25/2010	5/27/2010

---

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021053-05, OMC  
**Lab Order:** 10050726

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-E1 05-25-10 (10050726-002)



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 03, 2010

Date Printed: June 03, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053-05, OMC

Lab Order: 10050726

Lab ID: 10050726-001

Collection Date 5/25/2010

Client Sample ID:AS-N1 05-25-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/27/2010	Analyst: JP	
Particulate Matter (as PM10)	32600	100		µg/filter 1		5/28/2010

Lab ID: 10050726-002

Collection Date 5/25/2010

Client Sample ID:AS-E1 05-25-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/27/2010	Analyst: JP	
Particulate Matter (as PM10)	34100	100		µg/filter 1		5/28/2010

Lab ID: 10050726-003

Collection Date 5/25/2010

Client Sample ID:AS-S1 05-25-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/27/2010	Analyst: JP	
Particulate Matter (as PM10)	30100	100		µg/filter 1		5/28/2010

Lab ID: 10050726-004

Collection Date 5/25/2010

Client Sample ID:AS-S1D 05-25-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/27/2010	Analyst: JP	
Particulate Matter (as PM10)	29000	100		µg/filter 1		5/28/2010

Lab ID: 10050726-005

Collection Date 5/25/2010

Client Sample ID:AS-W1 05-25-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 5/27/2010	Analyst: JP	
Particulate Matter (as PM10)	76100	100		µg/filter 1		5/28/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

## Page : of

**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 5/27/2010 9:00:00 AM

Work Order Number 10050726

Received by: KAL

Checklist completed by:

*Kate Seis* 5/27/10  
Signature Date

Reviewed by:

*OK* 5/27/10  
Initials Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 14, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC

STAT Project No: 10060134

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 6/7/2010 9:15:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC  
**Lab Order:** 10060134

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10060134-001A	AS-E1 06-03-10		6/3/2010	6/7/2010
10060134-002A	AS-N1 06-03-10		6/3/2010	6/7/2010
10060134-003A	AS-W1 06-03-10		6/3/2010	6/7/2010
10060134-004A	AS-S1 06-03-10		6/3/2010	6/7/2010
10060134-005A	AS-S1D 06-03-10		6/3/2010	6/7/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: June 14, 2010

Date Printed: June 14, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC

Lab Order: 10060134

Lab ID: 10060134-001

Collection Date 6/3/2010

Client Sample ID:AS-E1 06-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/7/2010	Analyst: JP
Particulate Matter (as PM10)	7700	100		µg/filter 1	6/8/2010

Lab ID: 10060134-002

Collection Date 6/3/2010

Client Sample ID:AS-N1 06-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/7/2010	Analyst: JP
Particulate Matter (as PM10)	6500	100		µg/filter 1	6/8/2010

Lab ID: 10060134-003

Collection Date 6/3/2010

Client Sample ID:AS-W1 06-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/7/2010	Analyst: JP
Particulate Matter (as PM10)	13100	100		µg/filter 1	6/8/2010

Lab ID: 10060134-004

Collection Date 6/3/2010

Client Sample ID:AS-S1 06-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/7/2010	Analyst: JP
Particulate Matter (as PM10)	17400	100		µg/filter 1	6/8/2010

Lab ID: 10060134-005

Collection Date 6/3/2010

Client Sample ID:AS-S1D 06-03-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/7/2010	Analyst: JP
Particulate Matter (as PM10)	17600	100		µg/filter 1	6/8/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831250

Page : of

[illegible]

**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received:

**6/7/2010 9:15:00 AM**

Work Order Number **10060134**

Received by: **CDF**

Checklist completed by:

Signature

Date

**6/7/10**

Reviewed by:

Initials

**KL**

Date

**6/7/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted? ☐

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:



**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 15, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan, IL

STAT Project No: 10060298

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 6/11/2010 12:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan, IL  
**Lab Order:** 10060298

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10060298-001A	AS-W1-060910		6/9/2010	6/11/2010
10060298-002A	AS-N1-060910		6/9/2010	6/11/2010
10060298-003A	AS-E1-060910		6/9/2010	6/11/2010
10060298-004A	AS-S1-060910		6/9/2010	6/11/2010
10060298-005A	AS-S1D-060910		6/9/2010	6/11/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: June 15, 2010

Date Printed: June 15, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan, IL

Lab Order: 10060298

Lab ID: 10060298-001

Collection Date: 6/9/2010

Client Sample ID: AS-W1-060910

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/11/2010	Analyst: JP	
Particulate Matter (as PM10)	19600	100		µg/filter 1		6/14/2010

Lab ID: 10060298-002

Collection Date: 6/9/2010

Client Sample ID: AS-N1-060910

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/11/2010	Analyst: JP	
Particulate Matter (as PM10)	24400	100		µg/filter 1		6/14/2010

Lab ID: 10060298-003

Collection Date: 6/9/2010

Client Sample ID: AS-E1-060910

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/11/2010	Analyst: JP	
Particulate Matter (as PM10)	25500	100		µg/filter 1		6/14/2010

Lab ID: 10060298-004

Collection Date: 6/9/2010

Client Sample ID: AS-S1-060910

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/11/2010	Analyst: JP	
Particulate Matter (as PM10)	50900	100		µg/filter 1		6/14/2010

Lab ID: 10060298-005

Collection Date: 6/9/2010

Client Sample ID: AS-S1D-060910

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/11/2010	Analyst: JP	
Particulate Matter (as PM10)	53600	100		µg/filter 1		6/14/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831251

Page : of

Company: Tetra Tech South Africa		P.O. No.:									
Project Number: 10301-9021-05305 Client Tracking No.:		Quote No.:									
Project Name: CML		<div>Turn Around</div> <div>Results Needed</div> <div>am/pm</div>									
Project Location: Madaya In											
Sampler(s): Cassen, Mandy, Dase											
Report To: Tom Hare Phone: Fax: e-mail:											
QC Level: 1 2 3 4											
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp	Grab	Preserv.	No. of Containers	Remarks		Lab No.:
AS-WI-060910		060910	24Hrs	Filter	X			1			001
AS-NI-060910		↓	↓	↓	↓			1			002
AS-EI-060910		↓	↓	↓	↓			1			003
AS-SI-060910		↓	↓	↓	↓			1			004
AS-SID-060910		↓	↓	↓	↓			1			005
Relinquished by: (Signature) [Signature]		Date/Time: 06/10/10 1530		Comments: Please report as - w/ filter		Laboratory Work Order No.: 10060298					
Received by: (Signature) [Signature]		Date/Time: 06/10/10 1200				Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
Relinquished by: (Signature) [Signature]		Date/Time:				Temperature: 4°C					
Received by: (Signature) [Signature]		Date/Time:									

**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 6/11/2010 12:00:00 PM

Work Order Number 10060298

Received by: CDF

Checklist completed by:

Reviewed by:

Signature

Date

Initials

Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:



# STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

June 23, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG902105305, OMC, Waukegan, IL

STAT Project No: 10060494

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 6/18/2010 12:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG902105305, OMC, Waukegan, IL  
**Lab Order:** 10060494

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10060494-001A	AS-W1-061610		6/16/2010	6/18/2010
10060494-002A	AS-E1-061610		6/16/2010	6/18/2010
10060494-003A	AS-N1-061610		6/16/2010	6/18/2010
10060494-004A	AS-S1-061610		6/16/2010	6/18/2010
10060494-005A	AS-SID-061610		6/16/2010	6/18/2010

---

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG902105305, OMC, Waukegan, IL  
**Lab Order:** 10060494

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-SID-061610 (10060494-005)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: June 23, 2010

Date Printed: June 23, 2010

Client: Tetra Tech EM Inc.

Project: 103DG902105305, OMC, Waukegan, IL

Lab Order: 10060494

Lab ID: 10060494-001

Collection Date: 6/16/2010

Client Sample ID: AS-W1-061610

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/18/2010	Analyst: JP	
Particulate Matter (as PM10)	11900	100		µg/filter 1		6/21/2010

Lab ID: 10060494-002

Collection Date: 6/16/2010

Client Sample ID: AS-E1-061610

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/18/2010	Analyst: JP	
Particulate Matter (as PM10)	10500	100		µg/filter 1		6/21/2010

Lab ID: 10060494-003

Collection Date: 6/16/2010

Client Sample ID: AS-N1-061610

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/18/2010	Analyst: JP	
Particulate Matter (as PM10)	11100	100		µg/filter 1		6/21/2010

Lab ID: 10060494-004

Collection Date: 6/16/2010

Client Sample ID: AS-S1-061610

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/18/2010	Analyst: JP	
Particulate Matter (as PM10)	26300	100		µg/filter 1		6/21/2010

Lab ID: 10060494-005

Collection Date: 6/16/2010

Client Sample ID: AS-SID-061610

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/18/2010	Analyst: JP	
Particulate Matter (as PM10)	26200	100		µg/filter 1		6/21/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

N<sup>o</sup>: 831253

Page : of

[illegible]



**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 6/18/2010 12:00:00 PM

Work Order Number 10060494

Received by: JUM

Checklist completed by:

*[Signature]* 6/18/10

Reviewed by:

*CS* 6/21/10

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature: ambient 30

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

July 01, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan, IL

STAT Project No: 10060755

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 6/28/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan, IL  
**Lab Order:** 10060755

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10060755-001A	AS-E1-062410		6/24/2010	6/28/2010
10060755-002A	AS-W1-062410		6/24/2010	6/28/2010
10060755-003A	AS-N1-062410		6/24/2010	6/28/2010
10060755-004A	AS-S1-062410		6/24/2010	6/28/2010
10060755-005A	AS-S1D-062410		6/24/2010	6/28/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: July 01, 2010

Date Printed: July 01, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan, IL

Lab Order: 10060755

Lab ID: 10060755-001

Collection Date: 6/24/2010

Client Sample ID: AS-E1-062410

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/28/2010	Analyst: JP	
Particulate Matter (as PM10)	11100	100		µg/filter 1		6/30/2010

Lab ID: 10060755-002

Collection Date: 6/24/2010

Client Sample ID: AS-W1-062410

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/28/2010	Analyst: JP	
Particulate Matter (as PM10)	16400	100		µg/filter 1		6/30/2010

Lab ID: 10060755-003

Collection Date: 6/24/2010

Client Sample ID: AS-N1-062410

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/28/2010	Analyst: JP	
Particulate Matter (as PM10)	12000	100		µg/filter 1		6/30/2010

Lab ID: 10060755-004

Collection Date: 6/24/2010

Client Sample ID: AS-S1-062410

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/28/2010	Analyst: JP	
Particulate Matter (as PM10)	54600	100		µg/filter 1		6/30/2010

Lab ID: 10060755-005

Collection Date: 6/24/2010

Client Sample ID: AS-S1D-062410

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/28/2010	Analyst: JP	
Particulate Matter (as PM10)	53700	100		µg/filter 1		6/30/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

N<sup>o</sup>: 831269 Page : of



### Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received: 6/28/2010 9:30:00 AM

Work Order Number 10060755

Received by: CDF

Checklist completed by:

Reviewed by:

Signature

Date

Initials

Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

July 09, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan, IL

STAT Project No: 10070070

Dear Tom Hahne:

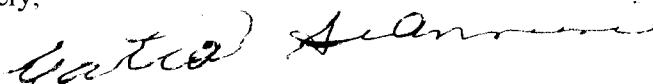
STAT Analysis received 5 samples for the referenced project on 7/2/2010 9:13:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan, IL  
**Lab Order:** 10070070

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10070070-001A	AS-WI-063010		6/30/2010	7/2/2010
10070070-002A	AS-NI-063010		6/30/2010	7/2/2010
10070070-003A	AS-EI-063010		6/30/2010	7/2/2010
10070070-004A	AS-SI-063010		6/30/2010	7/2/2010
10070070-005A	AS-SID-063010		6/30/2010	7/2/2010

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: July 09, 2010

Date Printed: July 09, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan, IL

Lab Order: 10070070

Lab ID: 10070070-001

Collection Date: 6/30/2010

Client Sample ID: AS-WI-063010

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/2/2010		Analyst: JP
Particulate Matter (as PM10)	25700	100		µg/filter 1		7/6/2010

Lab ID: 10070070-002

Collection Date: 6/30/2010

Client Sample ID: AS-NI-063010

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/2/2010		Analyst: JP
Particulate Matter (as PM10)	12600	100		µg/filter 1		7/6/2010

Lab ID: 10070070-003

Collection Date: 6/30/2010

Client Sample ID: AS-EI-063010

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/2/2010		Analyst: JP
Particulate Matter (as PM10)	9600	100		µg/filter 1		7/6/2010

Lab ID: 10070070-004

Collection Date: 6/30/2010

Client Sample ID: AS-SI-063010

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/2/2010		Analyst: JP
Particulate Matter (as PM10)	61300	100		µg/filter 1		7/6/2010

Lab ID: 10070070-005

Collection Date: 6/30/2010

Client Sample ID: AS-SID-063010

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/2/2010		Analyst: JP
Particulate Matter (as PM10)	61400	100		µg/filter 1		7/6/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831255

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[illegible]



### Sample Receipt Checklist

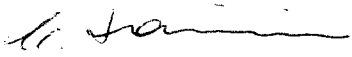
Client Name TETRA CHICAGO

Date and Time Received: 7/2/2010 9:13:00 AM

Work Order Number 10070070


Received by: CIG

Checklist completed by:

  
Signature

7/2/10  
Date

Reviewed by:

  
Initials

7/6/10  
Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

July 19, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053.05,OMC, Waukegan

STAT Project No: 10070421

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 7/14/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10070421

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10070421-001A	AS-E1-07-12-10		7/12/2010	7/14/2010
10070421-002A	AS-N1-07-12-10		7/12/2010	7/14/2010
10070421-003A	AS-W1-07-12-10		7/12/2010	7/14/2010
10070421-004A	AS-S1-07-12-10		7/12/2010	7/14/2010
10070421-005A	AS-S1D-07-12-10		7/12/2010	7/14/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10070421

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-W1-07-12-10 (10070421-002).

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: July 19, 2010

Date Printed: July 19, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan

Lab Order: 10070421

Lab ID: 10070421-001

Collection Date: 7/12/2010

Client Sample ID: AS-E1-07-12-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/14/2010	Analyst: JP	
Particulate Matter (as PM10)	19300	100		µg/filter 1		7/16/2010

Lab ID: 10070421-002

Collection Date: 7/12/2010

Client Sample ID: AS-N1-07-12-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/14/2010	Analyst: JP	
Particulate Matter (as PM10)	18800	100		µg/filter 1		7/16/2010

Lab ID: 10070421-003

Collection Date: 7/12/2010

Client Sample ID: AS-W1-07-12-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/14/2010	Analyst: JP	
Particulate Matter (as PM10)	20500	100		µg/filter 1		7/16/2010

Lab ID: 10070421-004

Collection Date: 7/12/2010

Client Sample ID: AS-S1-07-12-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/14/2010	Analyst: JP	
Particulate Matter (as PM10)	26600	100		µg/filter 1		7/16/2010

Lab ID: 10070421-005

Collection Date: 7/12/2010

Client Sample ID: AS-S1D-07-12-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/14/2010	Analyst: JP	
Particulate Matter (as PM10)	27400	100		µg/filter 1		7/16/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831256

Page : of

Company: Tetra Tech							P.O. No.:		<div>PM10</div>										
Project Number: 103269021053.05				Client Tracking No.:			Quote No.:												
Project Name: OMC																			
Project Location: Waukegan																			
Sampler(s): CARINISSON																			
Report To: TERRY HAHN				Phone:			Fax:		<div>Turn Around: Normal</div>										
CARINISSON				e-mail:															
QC Level: 1 2 3 4									Results Needed: am/pm										
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp	Grab	Preserv.	No. of Containers	Remarks										Lab No.:
AS-EI-07-12-10		07-12-10		A: Filter	X			1	X								001		
AS-NI-07-12-10		↓		↓	X			1	X								002		
AS-WI-07-12-10		↓		↓	X			1	X								003		
AS-SI-07-12-10		↓		↓	X			1	X								004		
AS-SID-07-12-10		↓		↓	X			1	X								005		
Relinquished by: (Signature)		Date/Time: 07-13-10 1440			Comments:					Laboratory Work Order No.:									
Received by: (Signature)		Date/Time: 7/14/10 930			Please report as N4/Filter					10070421									
Relinquished by: (Signature)		Date/Time:																	
Received by: (Signature)		Date/Time:			Preservation Code: A = None B = HNO3 C = NaOH D = H2SO4 E = HCl F = 5035/EnCore G = Other					Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>									
Relinquished by: (Signature)		Date/Time:																	
Received by: (Signature)		Date/Time:								Temperature: Ambient									



**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 7/14/2010 9:30:00 AM

Work Order Number 10070421

Received by: CDF

Checklist completed by:

Reviewed by:

Signature

Date

Initials

Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

July 26, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG69021053.05, OMC, Waukegan

STAT Project No: 10070642

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 7/21/2010 9:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG69021053.05, OMC, Waukegan  
**Lab Order:** 10070642

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10070642-001A	AS-E1-07-19-10		7/19/2010	7/21/2010
10070642-002A	AS-N1-07-19-10		7/19/2010	7/21/2010
10070642-003A	AS-W1-07-19-10		7/19/2010	7/21/2010
10070642-004A	AS-S1-07-19-10		7/19/2010	7/21/2010
10070642-005A	AS-SID-07-19-10		7/19/2010	7/21/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG69021053.05, OMC, Waukegan  
**Lab Order:** 10070642

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn:  
AS-E1-07-19-10 (10070642-001)  
AS-W1-07-19-10 (10070642-003)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: July 26, 2010

Date Printed: July 26, 2010

Client: Tetra Tech EM Inc.

Project: 103DG69021053.05, OMC, Waukegan

Lab Order: 10070642

Lab ID: 10070642-001

Collection Date: 7/19/2010

Client Sample ID: AS-E1-07-19-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/21/2010	Analyst: JP	
Particulate Matter (as PM10)	9600	100		µg/filter 1		7/22/2010

Lab ID: 10070642-002

Collection Date: 7/19/2010

Client Sample ID: AS-N1-07-19-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/21/2010	Analyst: JP	
Particulate Matter (as PM10)	12100	100		µg/filter 1		7/22/2010

Lab ID: 10070642-003

Collection Date: 7/19/2010

Client Sample ID: AS-W1-07-19-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/21/2010	Analyst: JP	
Particulate Matter (as PM10)	37400	100		µg/filter 1		7/22/2010

Lab ID: 10070642-004

Collection Date: 7/19/2010

Client Sample ID: AS-S1-07-19-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/21/2010	Analyst: JP	
Particulate Matter (as PM10)	26000	100		µg/filter 1		7/22/2010

Lab ID: 10070642-005

Collection Date: 7/19/2010

Client Sample ID: AS-SID-07-19-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/21/2010	Analyst: JP	
Particulate Matter (as PM10)	27200	100		µg/filter 1		7/22/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831257

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### Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received: 7/21/2010 9:00:00 AM

Work Order Number 10070642

Received by: CIG

Checklist completed by:

 7/21/10  
Signature Date

Reviewed by:

CIG 7/21/10  
Initials Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

August 02, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan

STAT Project No: 10070885

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 7/28/2010 1:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 10070885

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10070885-001A	AS-E1-07-26-10		7/26/2010	7/28/2010
10070885-002A	AS-N1-07-26-10		7/26/2010	7/28/2010
10070885-003A	AS-W1-07-26-10		7/26/2010	7/28/2010
10070885-004A	AS-S1-07-26-10		7/26/2010	7/28/2010
10070885-005A	AS-S1D-07-26-10		7/26/2010	7/28/2010

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: August 02, 2010

Date Printed: August 02, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan

Lab Order: 10070885

Lab ID: 10070885-001

Collection Date: 7/26/2010

Client Sample ID AS-E1-07-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/28/2010	Analyst: JP
Particulate Matter (as PM10)	18100	100		µg/filter 1	7/30/2010

Lab ID: 10070885-002

Collection Date: 7/26/2010

Client Sample ID AS-N1-07-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/28/2010	Analyst: JP
Particulate Matter (as PM10)	28800	100		µg/filter 1	7/30/2010

Lab ID: 10070885-003

Collection Date: 7/26/2010

Client Sample ID AS-W1-07-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/28/2010	Analyst: JP
Particulate Matter (as PM10)	23400	100		µg/filter 1	7/30/2010

Lab ID: 10070885-004

Collection Date: 7/26/2010

Client Sample ID AS-S1-07-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/28/2010	Analyst: JP
Particulate Matter (as PM10)	28800	100		µg/filter 1	7/30/2010

Lab ID: 10070885-005

Collection Date: 7/26/2010

Client Sample ID AS-S1D-07-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 7/28/2010	Analyst: JP
Particulate Matter (as PM10)	30000	100		µg/filter 1	7/30/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

N<sup>o</sup>: 831270

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[illegible]

## Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received:

7/28/2010

Work Order Number 10070885

Received by: CDF

Checklist completed by:

Signature

Date

7/26/10

Reviewed by:

Initials

Date

CB 7/28/10

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

August 12, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053-05, OMC, Waukegan, IL

STAT Project No: 10080258

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 8/9/2010 1:55:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053-05, OMC, Waukegan, IL  
**Lab Order:** 10080258

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10080258-001A	AS-E1-08-05-10		8/5/2010	8/9/2010
10080258-002A	AS-N1-08-05-10		8/5/2010	8/9/2010
10080258-003A	AS-W1-08-05-10		8/5/2010	8/9/2010
10080258-004A	AS-S1-08-05-10		8/5/2010	8/9/2010
10080258-005A	AS-SID-08-05-10		8/5/2010	8/9/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: August 12, 2010

Date Printed: August 12, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053-05, OMC, Waukegan, IL

Lab Order: 10080258

Lab ID: 10080258-001

Collection Date: 8/5/2010

Client Sample ID: AS-E1-08-05-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/6/2010	Analyst: JP
Particulate Matter (as PM10)	23200	100		µg/filter 1	8/10/2010

Lab ID: 10080258-002

Collection Date: 8/5/2010

Client Sample ID: AS-N1-08-05-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/6/2010	Analyst: JP
Particulate Matter (as PM10)	23200	100		µg/filter 1	8/10/2010

Lab ID: 10080258-003

Collection Date: 8/5/2010

Client Sample ID: AS-W1-08-05-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/6/2010	Analyst: JP
Particulate Matter (as PM10)	29900	100		µg/filter 1	8/10/2010

Lab ID: 10080258-004

Collection Date: 8/5/2010

Client Sample ID: AS-S1-08-05-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/6/2010	Analyst: JP
Particulate Matter (as PM10)	67000	100		µg/filter 1	8/10/2010

Lab ID: 10080258-005

Collection Date: 8/5/2010

Client Sample ID: AS-SID-08-05-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/6/2010	Analyst: JP
Particulate Matter (as PM10)	67900	100		µg/filter 1	8/10/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

N<sup>o</sup>: 831267 Page :        of

### Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received:

8/9/2010 1:55:00 PM

Work Order Number 10080258

Received by:

CIG

Checklist completed by:

*[Signature]*  
Signature

8/9/10  
Date

Reviewed by:

*[Signature]*  
Initials

8/10/10  
Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

August 19, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan

STAT Project No: 10080508

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 8/17/2010 9:15:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10080508

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10080508-001A	AS-E1-08-12-10		8/12/2010	8/17/2010
10080508-002A	AS-N1-08-12-10		8/12/2010	8/17/2010
10080508-003A	AS-W1-08-12-10		8/12/2010	8/17/2010
10080508-004A	AS-S1-08-12-10		8/12/2010	8/17/2010
10080508-005A	AS-SID-08-12-10		8/12/2010	8/17/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: August 19, 2010

Date Printed: August 19, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan

Lab Order: 10080508

Lab ID: 10080508-001

Collection Date: 8/12/2010

Client Sample ID: AS-E1-08-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/18/2010	Analyst: JP	
Particulate Matter (as PM10)	34300	100		µg/filter 1		8/18/2010

Lab ID: 10080508-002

Collection Date: 8/12/2010

Client Sample ID: AS-N1-08-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/18/2010	Analyst: JP	
Particulate Matter (as PM10)	28500	100		µg/filter 1		8/18/2010

Lab ID: 10080508-003

Collection Date: 8/12/2010

Client Sample ID: AS-W1-08-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/18/2010	Analyst: JP	
Particulate Matter (as PM10)	33000	100		µg/filter 1		8/18/2010

Lab ID: 10080508-004

Collection Date: 8/12/2010

Client Sample ID: AS-S1-08-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/18/2010	Analyst: JP	
Particulate Matter (as PM10)	31900	100		µg/filter 1		8/18/2010

Lab ID: 10080508-005

Collection Date: 8/12/2010

Client Sample ID: AS-SID-08-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/18/2010	Analyst: JP	
Particulate Matter (as PM10)	32200	100		µg/filter 1		8/18/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

Nº: 831258

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Page 4 of 5

### Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received: 8/17/2010 9:15:00 AM

Work Order Number 10080508

Received by: CIG

Checklist completed by: [Signature] 8/17/10  
Signature Date

Reviewed by: CB 8/18/10  
Initials Date

Matrix: Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

August 30, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan, IL

STAT Project No: 10080730

Dear Tom Hahne:

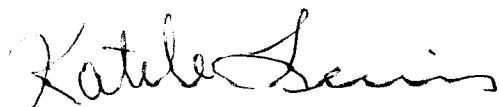
STAT Analysis received 5 samples for the referenced project on 8/23/2010 9:20:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.**Project:** 103DG9021.053.05, OMC, Waukegan, IL**Lab Order:** 10080730**Work Order Sample Summary**

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
10080730-001A	AS-E1		8/19/2010	8/23/2010
10080730-002A	AS-N1		8/19/2010	8/23/2010
10080730-003A	AS-W1		8/19/2010	8/23/2010
10080730-004A	AS-S1		8/19/2010	8/23/2010
10080730-005A	AS-SID		8/19/2010	8/23/2010

---

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan, IL  
**Lab Order:** 10080730

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-SID (10080730-005)



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: August 30, 2010

Date Printed: August 30, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan, IL

Lab Order: 10080730

Lab ID: 10080730-001

Collection Date 8/19/2010

Client Sample ID:AS-E1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/23/2010	Analyst: JP	
Particulate Matter (as PM10)	32100	100		µg/filter 1		8/25/2010

Lab ID: 10080730-002

Collection Date 8/19/2010

Client Sample ID:AS-N1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/23/2010	Analyst: JP	
Particulate Matter (as PM10)	32100	100		µg/filter 1		8/25/2010

Lab ID: 10080730-003

Collection Date 8/19/2010

Client Sample ID:AS-W1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/23/2010	Analyst: JP	
Particulate Matter (as PM10)	60500	100		µg/filter 1		8/25/2010

Lab ID: 10080730-004

Collection Date 8/19/2010

Client Sample ID:AS-S1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/23/2010	Analyst: JP	
Particulate Matter (as PM10)	76300	100		µg/filter 1		8/25/2010

Lab ID: 10080730-005

Collection Date 8/19/2010

Client Sample ID:AS-SID

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/23/2010	Analyst: JP	
Particulate Matter (as PM10)	77600	100		µg/filter 1		8/25/2010

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831259

Page : of

[illegible]

**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 8/23/2010 9:20:00 AM

Work Order Number 10080730

Received by: CIG

Checklist completed by:

  
Signature

Date

8/23/10

Reviewed by:

  
Initials8/24/10  
Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# STAT Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

September 03, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021.053.08, OMC, Waukegan

STAT Project No: 10080962

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 8/30/2010 10:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.08, OMC, Waukegan  
**Lab Order:** 10080962

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10080962-001A	AS-N1 08-26-10		8/26/2010	8/30/2010
10080962-002A	AS-E1 08-26-10		8/26/2010	8/30/2010
10080962-003A	AS-W1 08-26-10		8/26/2010	8/30/2010
10080962-004A	AS-S1 08-26-10		8/26/2010	8/30/2010
10080962-005A	AS-S1D 08-26-10		8/26/2010	8/30/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.08, OMC, Waukegan  
**Lab Order:** 10080962

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-W1 08-26-10 (10080962-003).

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 03, 2010

Date Printed: September 03, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.08, OMC, Waukegan

Lab Order: 10080962

Lab ID: 10080962-001

Collection Date: 8/26/2010

Client Sample ID: AS-N1 08-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/30/2010	Analyst: JP	
Particulate Matter (as PM10)	24000	100		µg/filter 1		9/1/2010

Lab ID: 10080962-002

Collection Date: 8/26/2010

Client Sample ID: AS-E1 08-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/30/2010	Analyst: JP	
Particulate Matter (as PM10)	31400	100		µg/filter 1		9/1/2010

Lab ID: 10080962-003

Collection Date: 8/26/2010

Client Sample ID: AS-W1 08-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/30/2010	Analyst: JP	
Particulate Matter (as PM10)	14700	100		µg/filter 1		9/1/2010

Lab ID: 10080962-004

Collection Date: 8/26/2010

Client Sample ID: AS-S1 08-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/30/2010	Analyst: JP	
Particulate Matter (as PM10)	53800	100		µg/filter 1		9/1/2010

Lab ID: 10080962-005

Collection Date: 8/26/2010

Client Sample ID: AS-S1D 08-26-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 8/30/2010	Analyst: JP	
Particulate Matter (as PM10)	53600	100		µg/filter 1		9/1/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded



## CHAIN OF CUSTODY RECORD

Nº: 831260

Page : of

[illegible]

**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **8/30/2010 10:00:00 AM**

Work Order Number **10080962**

Received by: **CDF**

Checklist completed by:

Signature

Date

**8/30/10**

Reviewed by:

Initials

Date

**OG 8/31/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted by:

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

September 13, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021-053-08, OMC, Waukegan

STAT Project No: 10090254

Dear Carol Nissen:

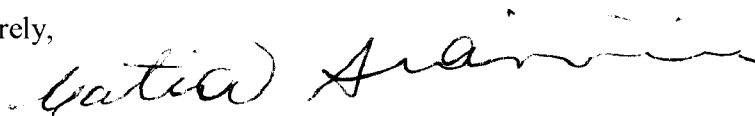
STAT Analysis received 5 samples for the referenced project on 9/10/2010 10:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-08, OMC, Waukegan  
**Lab Order:** 10090254

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10090254-001A	AS-E1 09/08/10		9/8/2010	9/10/2010
10090254-002A	AS-N1 09/08/10		9/8/2010	9/10/2010
10090254-003A	AS-W1 09/08/10		9/8/2010	9/10/2010
10090254-004A	AS-S1 09/08/10		9/8/2010	9/10/2010
10090254-005A	AS-S1D 09/08/10		9/8/2010	9/10/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-08, OMC, Waukegan  
**Lab Order:** 10090254

---

**CASE NARRATIVE**

The following 47mm filters were found to be torn when examined during the post weighing process:  
Sample AS-N1 09/08/10 (10090254-002)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 13, 2010

Date Printed: September 13, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021-053-08, OMC, Waukegan

Lab Order: 10090254

Lab ID: 10090254-001

Collection Date: 9/8/2010

Client Sample ID: AS-E1 09/08/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 9/10/2010	Analyst: JP	
Particulate Matter (as PM10)	21600	100		µg/filter 1		9/13/2010

Lab ID: 10090254-002

Collection Date: 9/8/2010

Client Sample ID: AS-N1 09/08/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 9/10/2010	Analyst: JP	
Particulate Matter (as PM10)	14700	100		µg/filter 1		9/13/2010

Lab ID: 10090254-003

Collection Date: 9/8/2010

Client Sample ID: AS-W1 09/08/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 9/10/2010	Analyst: JP	
Particulate Matter (as PM10)	22900	100		µg/filter 1		9/13/2010

Lab ID: 10090254-004

Collection Date: 9/8/2010

Client Sample ID: AS-S1 09/08/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 9/10/2010	Analyst: JP	
Particulate Matter (as PM10)	23600	100		µg/filter 1		9/13/2010

Lab ID: 10090254-005

Collection Date: 9/8/2010

Client Sample ID: AS-S1D 09/08/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 9/10/2010	Analyst: JP	
Particulate Matter (as PM10)	23800	100		µg/filter 1		9/13/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 831266

Page : of

[illegible]



**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **9/10/2010 10:00:00 AM**

Work Order Number **10090254**

Received by: **CDF**

Checklist completed by:

Signature

Date

**9/10/10**

Reviewed by:

Initials

Date

**CDF**

**9/13/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted

☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

September 28, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC

STAT Project No: 10090659

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 9/23/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC  
**Lab Order:** 10090659

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10090659-001A	OMC-AS-E1 09-17-10		9/17/2010	9/23/2010
10090659-002A	OMC-AS-N1 09-17-10		9/17/2010	9/23/2010
10090659-003A	OMC-AS-W1 09-17-10		9/17/2010	9/23/2010
10090659-004A	OMC-AS-S1 09-17-10		9/17/2010	9/23/2010
10090659-005A	OMC-AS-S1D 09-17-10		9/17/2010	9/23/2010

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Date Reported: September 28, 2010

Date Printed: September 28, 2010

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC**Lab Order:** 10090659**Lab ID:** 10090659-001  
**Client Sample ID:** OMC-AS-E1 09-17-10  
**Collection Date:** 9/17/2010  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>				Prep Date: <b>9/23/2010</b>	Analyst: <b>JP</b>
Particulate Matter (as PM10)	15100	100		µg/filter	1	9/27/2010

**Lab ID:** 10090659-002  
**Client Sample ID:** OMC-AS-N1 09-17-10  
**Collection Date:** 9/17/2010  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>				Prep Date: <b>9/23/2010</b>	Analyst: <b>JP</b>
Particulate Matter (as PM10)	13100	100		µg/filter	1	9/27/2010

**Lab ID:** 10090659-003  
**Client Sample ID:** OMC-AS-W1 09-17-10  
**Collection Date:** 9/17/2010  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>				Prep Date: <b>9/23/2010</b>	Analyst: <b>JP</b>
Particulate Matter (as PM10)	28200	100		µg/filter	1	9/27/2010

**Lab ID:** 10090659-004  
**Client Sample ID:** OMC-AS-S1 09-17-10  
**Collection Date:** 9/17/2010  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>				Prep Date: <b>9/23/2010</b>	Analyst: <b>JP</b>
Particulate Matter (as PM10)	34000	100		µg/filter	1	9/27/2010

**Lab ID:** 10090659-005  
**Client Sample ID:** OMC-AS-S1D 09-17-10  
**Collection Date:** 9/17/2010  
**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>				Prep Date: <b>9/23/2010</b>	Analyst: <b>JP</b>
Particulate Matter (as PM10)	34400	100		µg/filter	1	9/27/2010

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameterRL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

(Please Print Clearly)

Company Name:	TENATEL
Branch/Location:	Chicago
Project Contact:	Tom Habing
Phone:	312 201-7474
Project Number:	1031069021053.05
Project Name:	OMC
Project State:	IL
Sampled By (Print):	CAROL NISSEN
Sampled By (Sign):	
PO #:	
Regulatory Program:	

FILTERED?  
(YES/NO)

PRESERVATION  
(CODE)\*

**Preservation Codes**  
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

## CHAIN OF CUSTODY

Y/N

Pick  
Letter

Analysis Requested

PM10

**Data Package Options**  
(billable)

- ☐ EPA Level III  
☐ EPA Level IV

**MS/MSD**

- ☐ On your sample  
(billable)  
☐ NOT needed on  
your sample

**Matrix Codes**

A = Air W = Water  
B = Biota DW = Drinking Water  
C = Charcoal GW = Ground Water  
O = Oil SW = Surface Water  
S = Soil WW = Waste Water  
SI = Sludge WP = Wipe

PACE LAB #

CLIENT FIELD ID

COLLECTION

MATRIX

DATE	TIME	
001	OMC-AS-E1 09-17-10	9-17-10
002	OMC-AS-N1 09-17-10	↓
003	OMC-AS-W1 09-17-10	↓
004	OMC-AS-S1 09-17-10	↓
005	OMC-AS-S1D 09-17-10	↓

X  
X  
X  
X  
X

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT  
COMMENTS

LAB COMMENTS  
(Lab Use Only)

Profile #

Please  
reputas  
w/ filter

Rush Turnaround Time Requested - Prelims  
(Rush TAT subject to approval/surcharge)  
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:

Email #2:

Telephone:

Fax:

Samples on HOLD are subject to  
special pricing and release of liability

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

Received By:

Date/Time:

PACE Project No.

10090659

Receipt Temp = Ambient + °C

Sample Receipt pH

OK / Adjusted

Cooler Custody Seal

Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

UPPER MIDWEST REGION

MN: 612 607 1700 WI: 920 469 2436

Page 1 of



## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received:

**9/23/2010**

Work Order Number **10090659**

Received by: **CDF**

Checklist completed by:

Signature

Date

**9/23/10**

Reviewed by:

Initials

Date

**OC 9/24/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted

☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

October 11, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan

STAT Project No: 10100082

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 10/4/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10100082

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10100082-001A	AS-E1 09-29-10		9/29/2010	10/4/2010
10100082-002A	AS-N1 09/29/10		9/29/2010	10/4/2010
10100082-003A	AS-W1 09/29/10		9/29/2010	10/4/2010
10100082-004A	AS-S1 09/29/10		9/29/2010	10/4/2010
10100082-005A	AS-S1D 09/29/10		9/29/2010	10/4/2010

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 11, 2010

Date Printed: October 11, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan

Lab Order: 10100082

Lab ID: 10100082-001

Collection Date: 9/29/2010

Client Sample ID AS-E1 09-29-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/4/2010	Analyst: JP
Particulate Matter (as PM10)	41700	100		µg/filter 1	10/8/2010

Lab ID: 10100082-002

Collection Date: 9/29/2010

Client Sample ID AS-N1 09/29/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/4/2010	Analyst: JP
Particulate Matter (as PM10)	41300	100		µg/filter 1	10/8/2010

Lab ID: 10100082-003

Collection Date: 9/29/2010

Client Sample ID AS-W1 09/29/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/4/2010	Analyst: JP
Particulate Matter (as PM10)	56300	100		µg/filter 1	10/8/2010

Lab ID: 10100082-004

Collection Date: 9/29/2010

Client Sample ID AS-S1 09/29/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/4/2010	Analyst: JP
Particulate Matter (as PM10)	68200	100		µg/filter 1	10/8/2010

Lab ID: 10100082-005

Collection Date: 9/29/2010

Client Sample ID AS-S1D 09/29/10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/4/2010	Analyst: JP
Particulate Matter (as PM10)	67000	100		µg/filter 1	10/8/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 832794

Page : of

Company: Tetra Tech		P.O. No.:								
Project Number: 103 DG 902/05305		Quote No.:								
Project Name: OMC		<div>PM10</div>								
Project Location: Waukegan										
Sampler(s): Caryn Miller										
Report To: Tom Mahony										
Phone: _____		Turn Around _____								
Fax: _____		Results Needed _____								
e-mail: _____		am/pm _____								
QC Level: 1 _____ 2 _____ 3 _____ 4 _____										
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp	Grab	Preserv	No. of Containers	Remarks	Lab No.:
AS-E1 09-29-10		09/29/10		Filter				1		001
AS-N1 09/29/10		↓						1		002
AS-W1 09/29/10		↓						1		003
AS-S1 09/29/10		↓						1		004
AS-S1D 09/29/10		↓						1		005
Relinquished by: (Signature) _____		Date/Time: 10/4/10 9:30		Comments: Repotas u9/Filter						
Received by: (Signature) _____		Date/Time: _____		<div>Laboratory Work Order No.: 101000082</div> <div>Received on Ice: _____</div> <div>Temperature: _____</div>						
Relinquished by: (Signature) _____		Date/Time: _____								
Received by: (Signature) _____		Date/Time: _____								
Relinquished by: (Signature) _____		Date/Time: _____								
Received by: (Signature) _____		Date/Time: _____		Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other						

## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received:

**10/4/2010 9:30:00 AM**

Work Order Number **10100082**

Received by: **CDF**

Checklist completed by:

Signature

Date

**10/4/10**

Reviewed by:

Initials

Date

**CG 10/5/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted

☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

October 14, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: OMC Plant 2

STAT Project No: 10100287

Dear Tom Hahne:

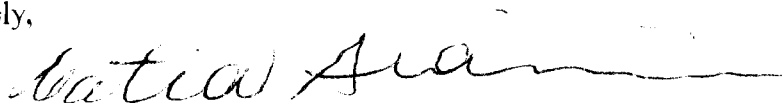
STAT Analysis received 5 samples for the referenced project on 10/11/2010 10:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.**Project:** OMC Plant 2**Lab Order:** 10100287**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10100287-001A	AS-S1 10-6-10		10/6/2010	10/11/2010
10100287-002A	AS-S1D 10-6-10		10/6/2010	10/11/2010
10100287-003A	AS-W1 10-6-10		10/6/2010	10/11/2010
10100287-004A	AS-N1 10-6-10		10/6/2010	10/11/2010
10100287-005A	AS-E1 10-6-10		10/6/2010	10/11/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 14, 2010

Date Printed: October 14, 2010

Client: Tetra Tech EM Inc.

Project: OMC Plant 2

Lab Order: 10100287

Lab ID: 10100287-001

Collection Date: 10/6/2010

Client Sample ID AS-S1 10-6-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 10/11/2010	Analyst: JP		
Particulate Matter (as PM10)	76800	100	µg/filter	1	10/13/2010

Lab ID: 10100287-002

Collection Date: 10/6/2010

Client Sample ID AS-S1D 10-6-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 10/11/2010	Analyst: JP		
Particulate Matter (as PM10)	81200	100	µg/filter	1	10/13/2010

Lab ID: 10100287-003

Collection Date: 10/6/2010

Client Sample ID AS-W1 10-6-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 10/11/2010	Analyst: JP		
Particulate Matter (as PM10)	54500	100	µg/filter	1	10/13/2010

Lab ID: 10100287-004

Collection Date: 10/6/2010

Client Sample ID AS-N1 10-6-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 10/11/2010	Analyst: JP		
Particulate Matter (as PM10)	44400	100	µg/filter	1	10/13/2010

Lab ID: 10100287-005

Collection Date: 10/6/2010

Client Sample ID AS-E1 10-6-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 10/11/2010	Analyst: JP		
Particulate Matter (as PM10)	64100	100	µg/filter	1	10/13/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

STAT

Client: Tetra Tech EM Inc (ARRA)

Address: 1 S. Wacker Dr. 37th Floor Suite 3700

City, State, Zip: Chicago

IL 60606

Client Invoice Contact: Shelley Rice

Client Project Mgr: Tom Hahne

Client Telephone#: (312) 201-7700

Fax: (312) 201-0031

Sampler Name (Print)

Sampler Signature:

TA Account #: 3335042

PO #: 1062074

Invoice to: Tetra Tech EM Inc (ARRA)

Report to: Tom Hahne

Project Name: OMC

Facility ID: OMC Plant 2

Reg District (CA):

Site Address:

City, State, Zip:

Illinois

Sample ID	Date Sampled	Time Sampled	# Containers Shipped	Grab	Composite	Field Filtered	Preservative					Matrix					Analyze for										RUSH TAT (Pre Schedule) *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
							Methanol	Sodium Bisulfate	(Blue Label) HCL	(Orange Label) NaOH	(Yellow Label) Plastic H2SO4	(Yellow Label) Glass H2SO4	(Red Label) HNO3	(Black Label) None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	(specify) Other	8082 PCBs	8260B Single - Trichloroethene	8270C Semivolatile Organics	Solids Percent Dry Weight	01 M J																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
AS-S1 10-6-10	10-6-10		1		1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

COMMENTS: All turn around times are calculated from the time of receipt at TestAmerica.

NOTES/SPECIAL INSTRUCTIONS: BO # 21290

\* Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.

There may be a charge assessed for TestAmerica disposing of sample remainders.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Relinquished by:	Date:	Time:
	10/8/10	1500		10/11/10	1030			
Shipped Via:			Shipped Via:			QC Deliverables (Please Circle One):		
Received for TestAmerica by:			Temperature Upon Receipt:			Level 2 Level 3 Level 4 Site Specific		
			Sample Containers Intact? Y N			(If site specific, please pre-schedule w/ TestAmerica Project Manager or attach specific instructions)		
			VOCs Free of Headpace? Y N			Date Due of Report:		

10100287



## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **10/11/2010 10:30:00 AM**

Work Order Number **10100287**

Received by: **CDF**

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted

☐

Yes

☐

No

☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

October 19, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.05305, OMC, Waukegan

STAT Project No: 10100415

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 10/14/2010 4:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.05305, OMC, Waukegan  
**Lab Order:** 10100415

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10100415-001A	AS-S1-10-12-10		10/12/2010	10/14/2010
10100415-002A	AS-S1D-10-12-10		10/12/2010	10/14/2010
10100415-003A	AS-W1-10-12-10		10/12/2010	10/14/2010
10100415-004A	AS-N1-10-12-10		10/12/2010	10/14/2010
10100415-005A	AS-E1-10-12-10		10/12/2010	10/14/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021.05305, OMC, Waukegan  
**Lab Order:** 10100415

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-S1D-10-12-10 (10100415-002)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: October 19, 2010

Date Printed: October 19, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.05305, OMC, Waukegan

Lab Order: 10100415

Lab ID: 10100415-001

Collection Date: 10/12/2010

Client Sample ID AS-S1-10-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 10/14/2010	Analyst: RW
Particulate Matter (as PM10)	35200	100		µg/filter	1	10/18/2010

Lab ID: 10100415-002

Collection Date: 10/12/2010

Client Sample ID AS-S1D-10-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 10/14/2010	Analyst: RW
Particulate Matter (as PM10)	32900	100		µg/filter	1	10/18/2010

Lab ID: 10100415-003

Collection Date: 10/12/2010

Client Sample ID AS-W1-10-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 10/14/2010	Analyst: RW
Particulate Matter (as PM10)	52500	100		µg/filter	1	10/18/2010

Lab ID: 10100415-004

Collection Date: 10/12/2010

Client Sample ID AS-N1-10-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 10/14/2010	Analyst: RW
Particulate Matter (as PM10)	24300	100		µg/filter	1	10/18/2010

Lab ID: 10100415-005

Collection Date: 10/12/2010

Client Sample ID AS-E1-10-12-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 10/14/2010	Analyst: RW
Particulate Matter (as PM10)	27300	100		µg/filter	1	10/18/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 832795

Page : of

[illegible]

**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **10/14/2010 4:00:00 PM**

Work Order Number **10100415**

Received by: **JJM**

Checklist completed by:

*[Signature]* **10/14/10**  
Signature Date

Reviewed by:

*[Signature]* **10/15/10**  
Initials Date

Matrix:

Carrier name **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

November 01, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG902105305, OMC, Waukegan

STAT Project No: 10100801

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 10/25/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*



---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG902105305, OMC, Waukegan  
**Lab Order:** 10100801

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10100801-001A	AS-E1 10-20-10		10/20/2010	10/25/2010
10100801-002A	AS-N1 10-20-10		10/20/2010	10/25/2010
10100801-003A	AS-W1 10-20-10		10/20/2010	10/25/2010
10100801-004A	AS-S1 10-20-10		10/20/2010	10/25/2010
10100801-005A	AS-S1D 10-20-10		10/20/2010	10/25/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 01, 2010

Date Printed: November 01, 2010

Client: Tetra Tech EM Inc.

Project: 103DG902105305, OMC, Waukegan

Lab Order: 10100801

Lab ID: 10100801-001

Collection Date 10/20/2010

Client Sample ID:AS-E1 10-20-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/25/2010	Analyst: JP	
Particulate Matter (as PM10)	120000	100		µg/filter 1		10/29/2010

Lab ID: 10100801-002

Collection Date 10/20/2010

Client Sample ID:AS-N1 10-20-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/25/2010	Analyst: JP	
Particulate Matter (as PM10)	36600	100		µg/filter 1		10/29/2010

Lab ID: 10100801-003

Collection Date 10/20/2010

Client Sample ID:AS-W1 10-20-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/25/2010	Analyst: JP	
Particulate Matter (as PM10)	68600	100		µg/filter 1		10/29/2010

Lab ID: 10100801-004

Collection Date 10/20/2010

Client Sample ID:AS-S1 10-20-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/25/2010	Analyst: JP	
Particulate Matter (as PM10)	74600	100		µg/filter 1		10/29/2010

Lab ID: 10100801-005

Collection Date 10/20/2010

Client Sample ID:AS-S1D 10-20-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 10/25/2010	Analyst: JP	
Particulate Matter (as PM10)	75300	100		µg/filter 1		10/29/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

Nº: 834332

Page : of

D = H<sub>2</sub>SO<sub>4</sub>    E = HCl    F = 5035/EnCore    G = Other

## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **10/25/2010 9:30:00 AM**

Work Order Number **10100801**

Received by: **CDF**

Checklist completed by:

Signature

Date

**10/25/10**

Reviewed by:

Initials

Date

**CG 10/26/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

November 08, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021-053-05, OMC, Waukegan

STAT Project No: 10110025

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 11/1/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-05, OMC, Waukegan  
**Lab Order:** 10110025

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10110025-001A	AS-W1 10-28-10		10/28/2010	11/1/2010
10110025-002A	AS-N1 10-28-10		10/28/2010	11/1/2010
10110025-003A	AS-E1 10-28-10		10/28/2010	11/1/2010
10110025-004A	AS-S1 10-28-10		10/28/2010	11/1/2010
10110025-005A	AS-S1D 10-28-10		10/28/2010	11/1/2010

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: November 08, 2010

Date Printed: November 08, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021-053-05, OMC, Waukegan

Lab Order: 10110025

Lab ID: 10110025-001

Collection Date: 10/28/2010

Client Sample ID AS-W1 10-28-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/1/2010	Analyst: JP
Particulate Matter (as PM10)	16500	100		µg/filter	1	11/5/2010

Lab ID: 10110025-002

Collection Date: 10/28/2010

Client Sample ID AS-N1 10-28-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/1/2010	Analyst: JP
Particulate Matter (as PM10)	8500	100		µg/filter	1	11/5/2010

Lab ID: 10110025-003

Collection Date: 10/28/2010

Client Sample ID AS-E1 10-28-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/1/2010	Analyst: JP
Particulate Matter (as PM10)	8900	100		µg/filter	1	11/5/2010

Lab ID: 10110025-004

Collection Date: 10/28/2010

Client Sample ID AS-S1 10-28-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/1/2010	Analyst: JP
Particulate Matter (as PM10)	22700	100		µg/filter	1	11/5/2010

Lab ID: 10110025-005

Collection Date: 10/28/2010

Client Sample ID AS-S1D 10-28-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/1/2010	Analyst: JP
Particulate Matter (as PM10)	23200	100		µg/filter	1	11/5/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

N<sup>o</sup>: 834331 Page :      of

[illegible]



## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **11/1/2010 9:30:00 AM**

Work Order Number **10110025**

Received by: **CDF**

Checklist completed by:

Signature

Date

**11/1/10**

Reviewed by:

Initials

**KL**

**11/2/10**

Date

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

November 09, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan

STAT Project No: 10110156

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 11/4/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 10110156

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10110156-001A	AS-N1		11/3/2010	11/4/2010
10110156-002A	AS-E1		11/3/2010	11/4/2010
10110156-003A	AS-W1		11/3/2010	11/4/2010
10110156-004A	AS-S1		11/3/2010	11/4/2010
10110156-005A	AS-S1D		11/3/2010	11/4/2010

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: November 09, 2010

Date Printed: November 09, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021.053.05, OMC, Waukegan

Lab Order: 10110156

Lab ID: 10110156-001

Collection Date: 11/3/2010

Client Sample ID AS-N1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 11/4/2010	Analyst: JP	
Particulate Matter (as PM10)	17100	100		µg/filter 1		11/4/2010

Lab ID: 10110156-002

Collection Date: 11/3/2010

Client Sample ID AS-E1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 11/4/2010	Analyst: JP	
Particulate Matter (as PM10)	23200	100		µg/filter 1		11/4/2010

Lab ID: 10110156-003

Collection Date: 11/3/2010

Client Sample ID AS-W1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 11/4/2010	Analyst: JP	
Particulate Matter (as PM10)	24900	100		µg/filter 1		11/4/2010

Lab ID: 10110156-004

Collection Date: 11/3/2010

Client Sample ID AS-S1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 11/4/2010	Analyst: JP	
Particulate Matter (as PM10)	31600	100		µg/filter 1		11/4/2010

Lab ID: 10110156-005

Collection Date: 11/3/2010

Client Sample ID AS-S1D

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 11/4/2010	Analyst: JP	
Particulate Matter (as PM10)	34600	100		µg/filter 1		11/4/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

Nº: 834330

Page : of

Page 4 of 5

**Sample Receipt Checklist**

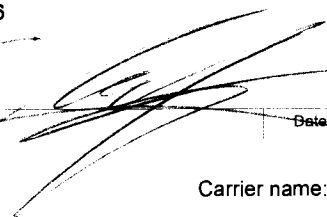
Client Name **TETRA CHICAGO**

Date and Time Received: **11/4/2010 9:30:00 AM**

Work Order Number **10110156**

Received by: **CDF**

Checklist completed by:

Signature  Date **11/4/10**

Reviewed by:

Initials **CD** Date **11/5/10**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

November 16, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021053.05, OMC, Waukegan

STAT Project No: 10110385

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 11/12/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021053.05, OMC, Waukegan  
**Lab Order:** 10110385

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10110385-001A	AS-N1 11-08-10		11/8/2010	11/12/2010
10110385-002A	AS-W1 11-08-10		11/8/2010	11/12/2010
10110385-003A	AS-E1 11-08-10		11/8/2010	11/12/2010
10110385-004A	AS-S1 11-08-10		11/8/2010	11/12/2010
10110385-005A	AS-S1D 11-08-10		11/8/2010	11/12/2010

---



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: November 16, 2010

Date Printed: November 16, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021053.05, OMC, Waukegan

Lab Order: 10110385

Lab ID: 10110385-001

Collection Date: 11/8/2010

Client Sample ID AS-N1 11-08-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/12/2010	Analyst: JP
Particulate Matter (as PM10)	54200	100		µg/filter	1	11/12/2010

Lab ID: 10110385-002

Collection Date: 11/8/2010

Client Sample ID AS-W1 11-08-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/12/2010	Analyst: JP
Particulate Matter (as PM10)	5400	100		µg/filter	1	11/12/2010

Lab ID: 10110385-003

Collection Date: 11/8/2010

Client Sample ID AS-E1 11-08-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/12/2010	Analyst: JP
Particulate Matter (as PM10)	57800	100		µg/filter	1	11/12/2010

Lab ID: 10110385-004

Collection Date: 11/8/2010

Client Sample ID AS-S1 11-08-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/12/2010	Analyst: JP
Particulate Matter (as PM10)	72600	100		µg/filter	1	11/12/2010

Lab ID: 10110385-005

Collection Date: 11/8/2010

Client Sample ID AS-S1D 11-08-10

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J				Prep Date: 11/12/2010	Analyst: JP
Particulate Matter (as PM10)	74100	100		µg/filter	1	11/12/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 834329

Page : of

Company: <u>Tetra Tech</u>		P.O. No.:																
Project Number: <u>10300902103305</u>		Quote No.:																
Project Name: <u>CMC</u>		<div style="text-align: center;">Turn Around</div> <div style="text-align: center;">Results Needed</div> <div style="text-align: center;">am/pm</div>																
Project Location: <u>Waukegan</u>																		
Sampler(s): <u>Continuous</u>																		
Report To: <u>Tom Hulse</u>																		
Phone: _____																		
Fax: _____																		
QC Level: 1 _____ 2 _____ 3 _____ 4 _____		e-mail: _____																
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv	No. of Containers	<div style="text-align: center;">PM10</div>									
AS-WI 11-08-10		11/08/10		E.H.H.	X			1										
AS-WI 11-08-10		↓		↓	X			1										
AS-EI 11-08-10		↓		↓	X			1										
AS-SI 11-08-10		↓		↓	X			1										
AS-SID 11-08-10		↓		↓	X			1										
Relinquished by: (Signature) <u>[Signature]</u>		Date/Time: <u>11/11/10 1600</u>		Comments: <u>Report as ug/l filter</u>						Laboratory Work Order No.:								
Received by: (Signature) <u>[Signature]</u>		Date/Time: <u>11/12/10 930</u>								10110385								
Relinquished by: (Signature)		Date/Time:								Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Received by: (Signature)		Date/Time:								Temperature: <u>Ambient</u>								
Relinquished by: (Signature)		Date/Time:		Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH														
Received by: (Signature)		Date/Time:		D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other														

**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **11/12/2010 9:30:00 AM**


Work Order Number **10110385**

Received by: **CIG**

Checklist completed by:

 **11/12/10**  
Signature Date

Reviewed by:

 **11/12/10**  
Initials Date

Matrix:

Carrier name **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by:
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

November 29, 2010

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021-053-05, OMC, Waukegan

STAT Project No: 10110686

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 11/22/2010 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-05, OMC, Waukegan  
**Lab Order:** 10110686

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
10110686-001A	AS-E1-11-18-10		11/18/2010	11/22/2010
10110686-002A	AS-N1-11-18-10		11/18/2010	11/22/2010
10110686-003A	AS-W1-11-18-10		11/18/2010	11/22/2010
10110686-004A	AS-S1-11-18-10		11/18/2010	11/22/2010
10110686-005A	AS-S1D-11-18-10		11/18/2010	11/22/2010

---

**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-05, OMC, Waukegan  
**Lab Order:** 10110686

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn: AS-W1-11-18-10 (10110686-003).

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: November 29, 2010

Date Printed: November 29, 2010

Client: Tetra Tech EM Inc.

Project: 103DG9021-053-05, OMC, Waukegan

Lab Order: 10110686

Lab ID: 10110686-001

Collection Date: 11/18/2010

Client Sample ID AS-E1-11-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 11/22/2010	Analyst: JP		
Particulate Matter (as PM10)	59800	100	µg/filter	1	11/24/2010

Lab ID: 10110686-002

Collection Date: 11/18/2010

Client Sample ID AS-N1-11-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 11/22/2010	Analyst: JP		
Particulate Matter (as PM10)	24400	100	µg/filter	1	11/24/2010

Lab ID: 10110686-003

Collection Date: 11/18/2010

Client Sample ID AS-W1-11-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 11/22/2010	Analyst: JP		
Particulate Matter (as PM10)	180000	100	µg/filter	1	11/24/2010

Lab ID: 10110686-004

Collection Date: 11/18/2010

Client Sample ID AS-S1-11-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 11/22/2010	Analyst: JP		
Particulate Matter (as PM10)	48700	100	µg/filter	1	11/24/2010

Lab ID: 10110686-005

Collection Date: 11/18/2010

Client Sample ID AS-S1D-11-18-10

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J	Prep Date: 11/22/2010	Analyst: JP		
Particulate Matter (as PM10)	50700	100	µg/filter	1	11/24/2010

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 834328

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## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **11/22/2010 9:30:00 AM**

Work Order Number **10110686**

Received by: **CDF**

Checklist completed by:

Reviewed by:

Signature

Date

Initials

Date

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☐

No ☒

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

February 15, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021-053.05, OMC, Waukegan

STAT Project No: 11020175

Dear Carol Nissen:

STAT Analysis received 5 samples for the referenced project on 2/11/2011 2:00:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053.05, OMC, Waukegan  
**Lab Order:** 11020175

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11020175-001A	AS-S1		2/9/2011	2/11/2011
11020175-002A	AS-S1D		2/9/2011	2/11/2011
11020175-003A	AS-N1		2/9/2011	2/11/2011
11020175-004A	AS-E1		2/9/2011	2/11/2011
11020175-005A	AS-W1		2/9/2011	2/11/2011

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: February 15, 2011

Date Printed: February 15, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021-053.05, OMC, Waukegan

Lab Order: 11020175

Lab ID: 11020175-001

Collection Date: 2/9/2011

Client Sample ID AS-S1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 2/11/2011	Analyst: RW
Particulate Matter (as PM10)	30300	100		µg/filter 1	2/14/2011

Lab ID: 11020175-002

Collection Date: 2/9/2011

Client Sample ID AS-S1D

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 2/11/2011	Analyst: RW
Particulate Matter (as PM10)	32400	100		µg/filter 1	2/14/2011

Lab ID: 11020175-003

Collection Date: 2/9/2011

Client Sample ID AS-N1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 2/11/2011	Analyst: RW
Particulate Matter (as PM10)	22900	100		µg/filter 1	2/14/2011

Lab ID: 11020175-004

Collection Date: 2/9/2011

Client Sample ID AS-E1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 2/11/2011	Analyst: RW
Particulate Matter (as PM10)	21200	100		µg/filter 1	2/14/2011

Lab ID: 11020175-005

Collection Date: 2/9/2011

Client Sample ID AS-W1

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 2/11/2011	Analyst: RW
Particulate Matter (as PM10)	78000	100		µg/filter 1	2/14/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 834318

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## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **2/11/2011 2:00:00 PM**

Work Order Number **11020175**

Received by: **CDF**

Checklist completed by:

Signature

Date

**2/11/11**

Reviewed by:

Initials

**SL**

Date

**2/14/11**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

# **STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 02, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.07, OMC, Waukegan

STAT Project No: 11020477

Dear Tom Hahne:

STAT Analysis received 2 samples for the referenced project on 2/25/2011 11:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.07, OMC, Waukegan  
**Lab Order:** 11020477

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11020477-001A	L6-UST		2/24/2011 2:00:00 PM	2/25/2011
11020477-001B	L6-UST		2/24/2011 2:00:00 PM	2/25/2011
11020477-001C	L6-UST		2/24/2011 2:00:00 PM	2/25/2011
11020477-002A	ODC-Tunnel		2/24/2011 1:30:00 PM	2/25/2011
11020477-002B	ODC-Tunnel		2/24/2011 1:30:00 PM	2/25/2011
11020477-002C	ODC-Tunnel		2/24/2011 1:30:00 PM	2/25/2011

---



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 02, 2011

Date Printed: March 02, 2011

Client: Tetra Tech EM Inc.

Lab Order: 11020477

Project: 103DG9021.053.07, OMC, Waukegan

Lab ID: 11020477-001

Client Sample ID: L6-UST

Collection Date: 2/24/2011 2:00:00 PM

Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs</b>						
	<b>SW8082 (SW3510C)</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>GVC</b>
Aroclor 1016	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1221	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1232	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1242	0.023	0.0005		mg/L	1	2/28/2011
Aroclor 1248	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1254	0.016	0.0005		mg/L	1	2/28/2011
Aroclor 1260	ND	0.0005		mg/L	1	2/28/2011
<b>TCLP Mercury</b>						
	<b>SW1311/7470A</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>LB</b>
Mercury	ND	0.0002		mg/L	1	3/1/2011
<b>Mercury</b>						
	<b>SW7470A</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>LB</b>
Mercury	ND	0.0002		mg/L	1	3/1/2011
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>JG</b>
Arsenic	0.069	0.01		mg/L	5	2/28/2011
Barium	0.15	0.05		mg/L	5	2/28/2011
Cadmium	ND	0.005		mg/L	5	2/28/2011
Chromium	ND	0.01		mg/L	5	2/28/2011
Lead	ND	0.0075		mg/L	5	2/28/2011
Selenium	0.49	0.01		mg/L	5	2/28/2011
Silver	ND	0.01		mg/L	5	2/28/2011
<b>Metals by ICP/MS</b>						
	<b>SW6020 (SW3005A)</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>JG</b>
Arsenic	0.082	0.004		mg/L	2	2/28/2011
Barium	4.8	0.2		mg/L	100	3/1/2011
Cadmium	0.0036	0.002		mg/L	2	2/28/2011
Chromium	0.086	0.004		mg/L	2	2/28/2011
Lead	0.11	0.003		mg/L	2	2/28/2011
Selenium	0.39	0.004		mg/L	2	2/28/2011
Silver	ND	0.004		mg/L	2	2/28/2011
<b>TCLP Semivolatile Organic Compounds</b>						
	<b>SW1311/8270C (SW3510C)</b>				Prep Date: <b>2/28/2011</b>	Analyst: <b>DM</b>
1,4-Dichlorobenzene	ND	0.01		mg/L	1	2/28/2011
2,4-Dinitrotoluene	ND	0.01		mg/L	1	2/28/2011
Hexachlorobenzene	ND	0.01		mg/L	1	2/28/2011
Hexachlorobutadiene	ND	0.01		mg/L	1	2/28/2011
Hexachloroethane	ND	0.01		mg/L	1	2/28/2011
Nitrobenzene	ND	0.01		mg/L	1	2/28/2011
2-methylphenol	ND	0.01		mg/L	1	2/28/2011
3- & 4-Methylphenol	0.022	0.01		mg/L	1	2/28/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 02, 2011

Date Printed: March 02, 2011

Client: Tetra Tech EM Inc.

Lab Order: 11020477

Project: 103DG9021.053.07, OMC, Waukegan

Lab ID: 11020477-001

Client Sample ID: L6-UST

Collection Date: 2/24/2011 2:00:00 PM

Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>		Prep Date: <b>2/28/2011</b>		Analyst: <b>DM</b>	
Pentachlorophenol	0.068	0.05		mg/L	1	2/28/2011
Pyridine	ND	0.01		mg/L	1	2/28/2011
2,4,5-Trichlorophenol	0.016	0.01		mg/L	1	2/28/2011
2,4,6-Trichlorophenol	ND	0.01		mg/L	1	2/28/2011
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>		Prep Date: <b>2/25/2011</b>		Analyst: <b>ART</b>	
Benzene	ND	0.05		mg/L	10	2/25/2011
2-Butanone	ND	0.2		mg/L	10	2/25/2011
Carbon tetrachloride	ND	0.05		mg/L	10	2/25/2011
Chlorobenzene	ND	0.05		mg/L	10	2/25/2011
Chloroform	ND	0.05		mg/L	10	2/25/2011
1,2-Dichloroethane	ND	0.05		mg/L	10	2/25/2011
1,1-Dichloroethene	ND	0.05		mg/L	10	2/25/2011
Tetrachloroethene	ND	0.05		mg/L	10	2/25/2011
Trichloroethene	ND	0.05		mg/L	10	2/25/2011
Vinyl chloride	ND	0.05		mg/L	10	2/25/2011
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: <b>3/1/2011</b>		Analyst: <b>YZ</b>	
Cyanide	ND	0.01		mg/L	1	3/1/2011
<b>Flash Point (Open-Cup)</b>	<b>SW1010</b>		Prep Date: <b>2/28/2011</b>		Analyst: <b>RW</b>	
Flashpoint	No flash up to 212			°F	1	2/28/2011
<b>pH</b>	<b>E150.1</b>		Prep Date: <b>2/25/2011</b>		Analyst: <b>MNG</b>	
pH	10.8		*	pH units	1	2/25/2011
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>		Prep Date: <b>2/26/2011</b>		Analyst: <b>BPJ</b>	
Phenolics, Total Recoverable	4.5	0.5		mg/L	100	2/26/2011
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>		Prep Date: <b>3/1/2011</b>		Analyst: <b>YZ</b>	
Reactive Sulfide	ND	10		mg/L	1	3/1/2011
<b>TOX</b>	<b>SW9020B</b>		Prep Date: <b>3/1/2011</b>		Analyst: <b>YZ</b>	
TOX	ND	0.2		mg/L	1	3/1/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 02, 2011

Date Printed: March 02, 2011

Client: Tetra Tech EM Inc.

Lab Order: 11020477

Project: 103DG9021.053.07, OMC, Waukegan

Lab ID: 11020477-002

Client Sample ID: ODC-Tunnel

Collection Date: 2/24/2011 1:30:00 PM

Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs</b>						
	<b>SW8082 (SW3510C)</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>GVC</b>
Aroclor 1016	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1221	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1232	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1242	0.36	0.005		mg/L	10	2/28/2011
Aroclor 1248	ND	0.0005		mg/L	1	2/28/2011
Aroclor 1254	0.066	0.0005		mg/L	1	2/28/2011
Aroclor 1260	ND	0.0005		mg/L	1	2/28/2011
<b>TCLP Mercury</b>						
	<b>SW1311/7470A</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>LB</b>
Mercury	ND	0.0002		mg/L	1	3/1/2011
<b>Mercury</b>						
	<b>SW7470A</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>LB</b>
Mercury	ND	0.0002		mg/L	1	3/1/2011
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020 (SW3005A)</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>JG</b>
Arsenic	ND	0.01		mg/L	5	2/28/2011
Barium	0.084	0.05		mg/L	5	2/28/2011
Cadmium	ND	0.005		mg/L	5	2/28/2011
Chromium	ND	0.01		mg/L	5	2/28/2011
Lead	ND	0.0075		mg/L	5	2/28/2011
Selenium	ND	0.01		mg/L	5	2/28/2011
Silver	ND	0.01		mg/L	5	2/28/2011
<b>Metals by ICP/MS</b>						
	<b>SW6020 (SW3005A)</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>JG</b>
Arsenic	0.017	0.004		mg/L	2	2/28/2011
Barium	0.066	0.004		mg/L	2	2/28/2011
Cadmium	ND	0.002		mg/L	2	2/28/2011
Chromium	0.016	0.004		mg/L	2	2/28/2011
Lead	0.064	0.003		mg/L	2	2/28/2011
Selenium	ND	0.004		mg/L	2	2/28/2011
Silver	ND	0.004		mg/L	2	2/28/2011
<b>TCLP Semivolatile Organic Compounds</b>						
	<b>SW1311/8270C (SW3510C)</b>			Prep Date: <b>2/28/2011</b>		Analyst: <b>DM</b>
1,4-Dichlorobenzene	ND	0.01		mg/L	1	2/28/2011
2,4-Dinitrotoluene	ND	0.01		mg/L	1	2/28/2011
Hexachlorobenzene	ND	0.01		mg/L	1	2/28/2011
Hexachlorobutadiene	ND	0.01		mg/L	1	2/28/2011
Hexachloroethane	ND	0.01		mg/L	1	2/28/2011
Nitrobenzene	ND	0.01		mg/L	1	2/28/2011
2-methylphenol	0.022	0.01		mg/L	1	2/28/2011
3- & 4-Methylphenol	2.3	0.2		mg/L	20	3/1/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 02, 2011

Date Printed: March 02, 2011

Client: Tetra Tech EM Inc.

Lab Order: 11020477

Project: 103DG9021.053.07, OMC, Waukegan

Lab ID: 11020477-002

Client Sample ID: ODC-Tunnel

Collection Date: 2/24/2011 1:30:00 PM

Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>TCLP Semivolatile Organic Compounds</b>	<b>SW1311/8270C (SW3510C)</b>					Prep Date: 2/28/2011 Analyst: DM
Pentachlorophenol	ND	0.05		mg/L	1	2/28/2011
Pyridine	ND	0.01		mg/L	1	2/28/2011
2,4,5-Trichlorophenol	ND	0.01		mg/L	1	2/28/2011
2,4,6-Trichlorophenol	ND	0.01		mg/L	1	2/28/2011
<b>TCLP Volatile Organic Compounds by GC/MS</b>	<b>SW1311/8260B (SW5030B)</b>					Prep Date: 2/24/2011 Analyst: ART
Benzene	ND	0.05		mg/L	10	2/25/2011
2-Butanone	ND	0.2		mg/L	10	2/25/2011
Carbon tetrachloride	ND	0.05		mg/L	10	2/25/2011
Chlorobenzene	ND	0.05		mg/L	10	2/25/2011
Chloroform	ND	0.05		mg/L	10	2/25/2011
1,2-Dichloroethane	ND	0.05		mg/L	10	2/25/2011
1,1-Dichloroethene	ND	0.05		mg/L	10	2/25/2011
Tetrachloroethene	ND	0.05		mg/L	10	2/25/2011
Trichloroethene	ND	0.05		mg/L	10	2/25/2011
Vinyl chloride	ND	0.05		mg/L	10	2/25/2011
<b>Cyanide, Total</b>	<b>SW9012A</b>					Prep Date: 3/1/2011 Analyst: YZ
Cyanide	ND	0.01		mg/L	1	3/1/2011
<b>Flash Point (Open-Cup)</b>	<b>SW1010</b>					Prep Date: 2/28/2011 Analyst: RW
Flashpoint	No flash up to 212			°F	1	2/28/2011
<b>pH</b>	<b>E150.1</b>					Prep Date: 2/25/2011 Analyst: MNG
pH	11.5		*	pH units	1	2/25/2011
<b>Phenolics</b>	<b>SW9066 (SW9065)</b>					Prep Date: 2/26/2011 Analyst: BPJ
Phenolics, Total Recoverable	4.8	0.5		mg/L	100	2/26/2011
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2</b>					Prep Date: 3/1/2011 Analyst: YZ
Reactive Sulfide	ND	10		mg/L	1	3/1/2011
<b>TOX</b>	<b>SW9020B</b>					Prep Date: 3/1/2011 Analyst: YZ
TOX	0.23	0.2		mg/L	1	3/1/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

N<sup>o</sup>: 836905 Page :      of

Company: <u>Tetra Tech</u>		P.O. No.:								
Project Number: <u>103 DE-9021-053.07</u>		Quote No.:								
Project Name: <u>San. CDC</u>		<div>Green Sheet Project Number</div>								
Project Location: <u>Waukesha</u>										
Sampler(s): <u>Carol Nisser</u>										
Report To: <u>1030 Helms</u>										
Phone:		Turn Around:								
Fax:		Results Needed:								
QC Level: 1 2 3 4		am/pm								
e-mail:										
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp	Grab	Preserv	No. of Containers	Remarks	Lab No.:
L6 - UST		2/24/11	1400	Water		X		6		001
CDC - Tunnel		2/24/11	1330			X		6		002
Relinquished by: (Signature) <u>[Signature]</u>		Date/Time: <u>2/24/11 1600</u>		Comments:				Laboratory Work Order No.: <u>11020477</u>		
Received by: (Signature) <u>[Signature]</u>		Date/Time: <u>2/25/11 1130</u>		Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other				Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
Relinquished by: (Signature)		Date/Time:						Temperature: <u>1.8</u> °C		
Received by: (Signature)		Date/Time:								
Relinquished by: (Signature)		Date/Time:								
Received by: (Signature)		Date/Time:								

**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received: 2/25/2011 11:30:00 AM

Work Order Number 11020477

Received by: CDF

Checklist completed by:

Signature

Date

2/25/11

Reviewed by:

Initials

KL

2/28/11

Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature 1.8 °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☒

Water - Samples pH checked?

Yes ☒

No ☐

Checked by:

CA

Water - Samples properly preserved?

Yes ☒

No ☐

pH Adjusted?

10 °C

Any No response must be detailed in the comments section below.

Comments:

2 of 3 VOA Vials For Sample C6-VST Have  
Headspace

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

VOA vials without headspace were used for  
analysis.

**Craig Chawla**

---

**From:** Nissen, Carol [Carol.Nissen@tetrattech.com]**Sent:** Friday, February 25, 2011 1:14 PM**To:** Craig Chawla**Subject:** Liquid samples

Hi Craig, please run the 2 liquid samples (L6-UST and ODC trench) for the following:

pH  
 flashpoint  
 cyanide total  
 sulfide total  
 phenolics total  
 total RCRA metals  
 TCLP metals  
 TCLP volatiles  
 TCLP semi-volatiles  
 % chlorine

Do a PCB if there is enough volume.

Thanks,

**Carol Nissen, PG, PE | Environmental Engineer**

Direct: 312.201.7411 | Main: 312.201.7700 | Fax: 312.201.0031  
 carol.nissen@itemi.com

Tetra Tech | Chicago Office

130 Wacker Drive 37th Floor | Chicago, IL 60606 | [www.tetrattech.com](http://www.tetrattech.com)

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**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 08, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021-053-05, OMC, Waukegan, IL

STAT Project No: 11030079

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 3/3/2011 10:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*



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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-05, OMC, Waukegan, IL  
**Lab Order:** 11030079

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11030079-001A	AS-E1 03-01-11		3/1/2011	3/3/2011
11030079-002A	AS-N1 03-01-11		3/1/2011	3/3/2011
11030079-003A	AS-W1 03-01-11		3/1/2011	3/3/2011
11030079-004A	AS-S1 03-01-11		3/1/2011	3/3/2011
11030079-005A	AS-S1D 03-01-11		3/1/2011	3/3/2011

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 08, 2011

Date Printed: March 08, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021-053-05, OMC, Waukegan, IL

Lab Order: 11030079

Lab ID: 11030079-001

Collection Date: 3/1/2011

Client Sample ID AS-E1 03-01-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	23900	100		µg/filter	1	Analyst: RW 3/7/2011

Lab ID: 11030079-002

Collection Date: 3/1/2011

Client Sample ID AS-N1 03-01-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	33200	100		µg/filter	1	Analyst: RW 3/7/2011

Lab ID: 11030079-003

Collection Date: 3/1/2011

Client Sample ID AS-W1 03-01-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	48400	100		µg/filter	1	Analyst: RW 3/7/2011

Lab ID: 11030079-004

Collection Date: 3/1/2011

Client Sample ID AS-S1 03-01-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	39700	100		µg/filter	1	Analyst: RW 3/7/2011

Lab ID: 11030079-005

Collection Date: 3/1/2011

Client Sample ID AS-S1D 03-01-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	40500	100		µg/filter	1	Analyst: RW 3/7/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

Nº: 834327

Page : of

Company: Tetra Tech		P.O. No.:									
Project Number: 103 DG 9021-053-05		Quote No.:									
Client Tracking No.:		<div>Turn Around</div> <div>Results Needed</div> <div>am/pm</div>									
Project Name: OMC											
Project Location: Winkler Fe											
Sampler(s): C100 N:550											
Report To: Tom Hahn											
Phone:											
Fax:											
e-mail:											
QC Level: 1 2 3 4											
Client Sample Number/Description:		Date Taken	Time Taken	Matrix	Comp	Grab	Preserv	No. of Containers	Remarks		Lab No.:
AS-E 1 03-01-11		03-01-11		Filter	X			1			001
AS-N 1 03-01-11		↓						1			002
AS-W 1 03-01-11		↓						1			003
AS-S 1 03-01-11		↓						1			004
AS-S 10 03-01-11		↓						1			005
Relinquished by: (Signature)		Date/Time: 03/02/11 1500		Comments: Please report as ug/Kg/ten							
Received by: (Signature)		Date/Time: 3/5/11 1030		Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH							
Relinquished by: (Signature)		Date/Time:		D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other							
Received by: (Signature)		Date/Time:		Laboratory Work Order No.: 11030079							
Relinquished by: (Signature)		Date/Time:		Received on Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
Received by: (Signature)		Date/Time:		Temperature: 4°C							

## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **3/3/2011 10:30:00 AM**

Work Order Number **11030079**

Received by: **CDF**

Checklist completed by:

Reviewed by:

Signature

Date

**3/3/11**

Initials

Date

**CG 3/4/11**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature Ambient °C

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by:

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted?

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 15, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan

STAT Project No: 11030344

Dear Tom Hahne:

STAT Analysis received 1 sample for the referenced project on 3/15/2011 1:05:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 11030344

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11030344-001A	Trench Effluent		3/15/2011 8:50:00 AM	3/15/2011

**STAT Analysis Corporation***2242 West Harrison St., Suite 200, Chicago, IL 60612-3766**Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com**Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202***Report Date:** March 15, 2011**Print Date:** March 15, 2011

---

<b>Client:</b>	Tetra Tech EM Inc.	<b>Client Sample ID:</b>	Trench Effluent
<b>Lab Order:</b>	11030344	<b>Tag Number:</b>	
<b>Project:</b>	103DG9021.053.05, OMC, Waukegan	<b>Collection Date:</b>	3/15/2011 8:50:00 AM
<b>Lab ID:</b>	11030344-001A	<b>Matrix:</b>	Water

---

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs</b>			<b>SW8082 (SW3510C)</b>			Prep Date: <b>3/15/2011</b> Analyst: <b>OES</b>
Aroclor 1016	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1221	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1232	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1242	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1248	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1254	ND	0.0005		mg/L	1	3/15/2011
Aroclor 1260	ND	0.0005		mg/L	1	3/15/2011

---

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

## Page : of



## Sample Receipt Checklist

Client Name **TETRA CHICAGO**

Date and Time Received: **3/15/2011 1:05:00 PM**

Work Order Number **11030344**

Received by: **CDF**

Checklist completed by:

Signature

Date

**3/15/11**

Reviewed by:

Initials

**KL**

**3/15/11**  
Date

Matrix:

Carrier name: **STAT Analysis**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature <b>5.6 °C</b>
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 22, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG902L053-05, OMC, Waukegan

STAT Project No: 11030347

Dear Tom Hahne:


STAT Analysis received 5 samples for the referenced project on 3/15/2011 1:25:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG902L053-05, OMC, Waukegan  
**Lab Order:** 11030347

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11030347-001A	AS-S1-03-10-11		3/10/2011	3/15/2011
11030347-002A	AS-S1D-03-10-11		3/10/2011	3/15/2011
11030347-003A	AS-E1-03-10-11		3/10/2011	3/15/2011
11030347-004A	AS-N1-03-10-11		3/10/2011	3/15/2011
11030347-005A	AS-W1-03-10-11		3/10/2011	3/15/2011

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 22, 2011

Date Printed: March 22, 2011

Client: Tetra Tech EM Inc.

Project: 103DG902L053-05, OMC, Waukegan

Lab Order: 11030347

Lab ID: 11030347-001

Collection Date: 3/10/2011

Client Sample ID AS-S1-03-10-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 3/15/2011	Analyst: RW	
Particulate Matter (as PM10)	17300	100		µg/filter 1		3/21/2011

Lab ID: 11030347-002

Collection Date: 3/10/2011

Client Sample ID AS-S1D-03-10-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 3/15/2011	Analyst: RW	
Particulate Matter (as PM10)	16900	100		µg/filter 1		3/21/2011

Lab ID: 11030347-003

Collection Date: 3/10/2011

Client Sample ID AS-E1-03-10-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 3/15/2011	Analyst: RW	
Particulate Matter (as PM10)	16400	100		µg/filter 1		3/21/2011

Lab ID: 11030347-004

Collection Date: 3/10/2011

Client Sample ID AS-N1-03-10-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 3/15/2011	Analyst: RW	
Particulate Matter (as PM10)	15500	100		µg/filter 1		3/21/2011

Lab ID: 11030347-005

Collection Date: 3/10/2011

Client Sample ID AS-W1-03-10-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 3/15/2011	Analyst: RW	
Particulate Matter (as PM10)	18000	100		µg/filter 1		3/21/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded



**Sample Receipt Checklist**Client Name **TETRA CHICAGO**Date and Time Received: **3/15/2011 1:25:00 PM**Work Order Number **11030347**Received by: **KAL**

Checklist completed by:

 **3/15/11**  
Signature Date

Reviewed by:

**CK 3/14/11**  
Initials Date

Matrix:

Carrier name: STAT Analysis

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 16, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021-053.05, OMC, Waukegan

STAT Project No: 11030361

Dear Tom Hahne:

STAT Analysis received 1 sample for the referenced project on 3/16/2011 10:00:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

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---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053.05, OMC, Waukegan  
**Lab Order:** 11030361

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11030361-001A	Trench-Effluent-PM		3/15/2011 2:30:00 PM	3/16/2011

---



**STAT Analysis Corporation***2242 West Harrison St., Suite 200, Chicago, IL 60612-3766**Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com**Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202***Report Date:** March 16, 2011**Print Date:** March 16, 2011

---

<b>Client:</b>	Tetra Tech EM Inc.	<b>Client Sample ID:</b>	Trench-Effluent-PM
<b>Lab Order:</b>	11030361	<b>Tag Number:</b>	
<b>Project:</b>	103DG9021-053.05, OMC, Waukegan	<b>Collection Date:</b>	3/15/2011 2:30:00 PM
<b>Lab ID:</b>	11030361-001A	<b>Matrix:</b>	Water

---

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs</b>						
		<b>SW8082 (SW3510C)</b>				
					Prep Date: <b>3/16/2011</b>	Analyst: <b>GVC</b>
Aroclor 1016	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1221	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1232	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1242	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1248	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1254	ND	0.0005		mg/L	1	3/16/2011
Aroclor 1260	ND	0.0005		mg/L	1	3/16/2011

---

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

Nº: 834321

Page : of

[illegible]

**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **3/16/2011 10:00:00 AM**

Work Order Number **11030361**

Received by: **CDF**

Checklist completed by:

Signature

Date

**3/16/11**

Reviewed by:

Initials

Date

**KL**

**3/16/11**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature <b>1.6 °C</b>
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 22, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021-053-05, OMC, Waukegan

STAT Project No: 11030438

Dear Tom Hahne:

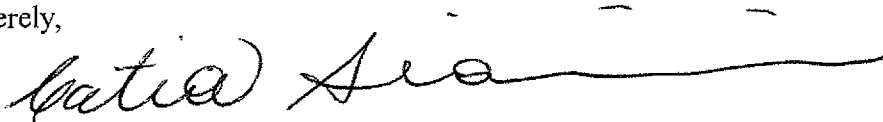
STAT Analysis received 5 samples for the referenced project on 3/18/2011 9:45:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053-05, OMC, Waukegan  
**Lab Order:** 11030438

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11030438-001A	AS-S1-03-16-11		3/16/2011	3/18/2011
11030438-002A	AS-S1D-03-16-11		3/16/2011	3/18/2011
11030438-003A	AS-E1-03-16-11		3/16/2011	3/18/2011
11030438-004A	AS-N1-03-16-11		3/16/2011	3/18/2011
11030438-005A	AS-W1-03-16-11		3/16/2011	3/18/2011

---

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 22, 2011

Date Printed: March 22, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021-053-05, OMC, Waukegan

Lab Order: 11030438

Lab ID: 11030438-001

Collection Date: 3/16/2011

Client Sample ID AS-S1-03-16-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	53200	100		µg/filter	1	3/21/2011

Lab ID: 11030438-002

Collection Date: 3/16/2011

Client Sample ID AS-S1D-03-16-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	57400	100		µg/filter	1	3/21/2011

Lab ID: 11030438-003

Collection Date: 3/16/2011

Client Sample ID AS-E1-03-16-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	29400	100		µg/filter	1	3/21/2011

Lab ID: 11030438-004

Collection Date: 3/16/2011

Client Sample ID AS-N1-03-16-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	17500	100		µg/filter	1	3/21/2011

Lab ID: 11030438-005

Collection Date: 3/16/2011

Client Sample ID AS-W1-03-16-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	59400	100		µg/filter	1	3/21/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded



**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **3/18/2011 9:45:00 AM**

Work Order Number **11030438**

Received by: **CDF**

Checklist completed by:

Signature

Date

**3/18/11**

Reviewed by:

Initials

Date

**XC**

**3/21/11**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:



**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

April 11, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 946-6474  
Fax: (312) 938-0118

RE: 103DG9021.053.05, OMC, Waukegan

STAT Project No: 11040064

Dear Tom Hahne:

STAT Analysis received 5 samples for the referenced project on 4/4/2011 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Katelin Lewis

Project Manager

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---

**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 11040064

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11040064-001A	AS-S1 03-30-11		3/30/2011	4/4/2011
11040064-002A	AS-S1D 03-30-11		3/30/2011	4/4/2011
11040064-003A	AS-E1 03-30-11		3/30/2011	4/4/2011
11040064-004A	AS-N1 03-30-11		3/30/2011	4/4/2011
11040064-005A	AS-W1 03-30-11		3/30/2011	4/4/2011

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**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021.053.05, OMC, Waukegan  
**Lab Order:** 11040064

---

**CASE NARRATIVE**

The following filter was received damaged and/or torn: AS-S1D 03-30-11 (11040064-002)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: April 11, 2011

Date Printed: April 11, 2011

**Client:** Tetra Tech EM Inc.**Project:** 103DG9021.053.05, OMC, Waukegan**Lab Order:** 11040064**Lab ID:** 11040064-001**Collection Date** 3/30/2011**Client Sample ID:**AS-S1 03-30-11**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>			Prep Date: <b>4/4/2011</b>	Analyst: <b>RW</b>
Particulate Matter (as PM10)	24900	100		µg/filter 1	4/6/2011

**Lab ID:** 11040064-002**Collection Date** 3/30/2011**Client Sample ID:**AS-S1D 03-30-11**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>			Prep Date: <b>4/4/2011</b>	Analyst: <b>RW</b>
Particulate Matter (as PM10)	25100	100		µg/filter 1	4/6/2011

**Lab ID:** 11040064-003**Collection Date** 3/30/2011**Client Sample ID:**AS-E1 03-30-11**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>			Prep Date: <b>4/4/2011</b>	Analyst: <b>RW</b>
Particulate Matter (as PM10)	16100	100		µg/filter 1	4/6/2011

**Lab ID:** 11040064-004**Collection Date** 3/30/2011**Client Sample ID:**AS-N1 03-30-11**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>			Prep Date: <b>4/4/2011</b>	Analyst: <b>RW</b>
Particulate Matter (as PM10)	10900	100		µg/filter 1	4/6/2011

**Lab ID:** 11040064-005**Collection Date** 3/30/2011**Client Sample ID:**AS-W1 03-30-11**Matrix:** Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Particulate Matter in Air</b>	<b>40 CFR PART 50 APP. J</b>			Prep Date: <b>4/4/2011</b>	Analyst: <b>RW</b>
Particulate Matter (as PM10)	200000	100		µg/filter 1	4/6/2011

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded



### Sample Receipt Checklist

Client Name TETRA CHICAGO

Date and Time Received: 4/4/2011 9:30:00 AM

Work Order Number 11040064

Received by: CDF

Checklist completed by:

Signature

Date

4/4/11

Reviewed by:

Initials

Date

CG 4/5/11

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted:

Date contacted:

Contacted by:

Response:

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

April 22, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021067.08, OMC, Waukegan

STAT Project No: 11040617

Dear Carol Nissen:


STAT Analysis received 5 samples for the referenced project on 4/18/2011 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021067.08, OMC, Waukegan  
**Lab Order:** 11040617

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11040617-001A	AS-S1 04-13-11		4/13/2011	4/18/2011
11040617-002A	AS-S1D 04-13-11		4/13/2011	4/18/2011
11040617-003A	AS-E1 04-13-11		4/13/2011	4/18/2011
11040617-004A	AS-N1 04-13-11		4/13/2011	4/18/2011
11040617-005A	AS-W1 04-13-11		4/13/2011	4/18/2011

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**CLIENT:** Tetra Tech EM Inc.  
**Project:** 103DG9021067.08, OMC, Waukegan  
**Lab Order:** 11040617

---

**CASE NARRATIVE**

The following filters were received damaged and/or torn:  
AS-N1 04-13-11 (11040617-004)  
AS-W1 04-13-11 (11040617-005)

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: April 22, 2011

Date Printed: April 22, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021067.08, OMC, Waukegan

Lab Order: 11040617

Lab ID: 11040617-001

Collection Date: 4/13/2011

Client Sample ID AS-S1 04-13-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	30400	100		µg/filter	1	Analyst: RW 4/20/2011

Lab ID: 11040617-002

Collection Date: 4/13/2011

Client Sample ID AS-S1D 04-13-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	33400	100		µg/filter	1	Analyst: RW 4/20/2011

Lab ID: 11040617-003

Collection Date: 4/13/2011

Client Sample ID AS-E1 04-13-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	87600	100		µg/filter	1	Analyst: RW 4/20/2011

Lab ID: 11040617-004

Collection Date: 4/13/2011

Client Sample ID AS-N1 04-13-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	32600	100		µg/filter	1	Analyst: RW 4/20/2011

Lab ID: 11040617-005

Collection Date: 4/13/2011

Client Sample ID AS-W1 04-13-11

Matrix: Filter

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Particulate Matter in Air	40 CFR PART 50 APP. J					
Particulate Matter (as PM10)	120000	100		µg/filter	1	Analyst: RW 4/20/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded



**Sample Receipt Checklist**

Client Name **TETRA CHICAGO**

Date and Time Received: **4/18/2011 9:30:00 AM**

Work Order Number **11040617**

Received by: **CDF**

Checklist completed by:

Signature

Date

**4/18/11**

Reviewed by:

Initials

Date

**Cb 4/19/11**

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

June 14, 2011

Tetra Tech EM Inc.  
1 South Wacker Drive  
37th Floor  
Chicago, IL 60606  
Telephone: (312) 856-8700  
Fax: (312) 938-0118

RE: 103DG9021-053.08, OMC, Waukegan

STAT Project No: 11060265

Dear Carol Nissen:

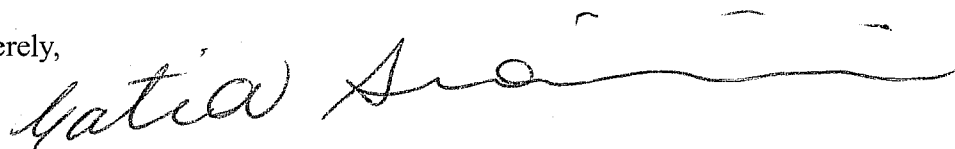
STAT Analysis received 8 samples for the referenced project on 6/9/2011 9:30:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Tetra Tech EM Inc.  
**Project:** 103DG9021-053.08, OMC, Waukegan  
**Lab Order:** 11060265

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
11060265-001A	AS-S1-6-1-11		6/1/2011	6/9/2011
11060265-002A	AS-S1D-6-1-11		6/1/2011	6/9/2011
11060265-003A	AS-E1-6-1-11		6/1/2011	6/9/2011
11060265-004A	AS-S1-6-7-11		6/7/2011	6/9/2011
11060265-005A	AS-S1D-6-7-11		6/7/2011	6/9/2011
11060265-006A	AS-N1-6-7-11		6/7/2011	6/9/2011
11060265-007A	AS-E1-6-7-11		6/7/2011	6/9/2011
11060265-008A	AS-W1-6-7-11		6/7/2011	6/9/2011

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: June 14, 2011

Date Printed: June 14, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021-053.08, OMC, Waukegan

Lab Order: 11060265

Lab ID: 11060265-001

Collection Date: 6/1/2011

Client Sample ID AS-S1-6-1-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	38300	100		µg/filter 1		6/10/2011

Lab ID: 11060265-002

Collection Date: 6/1/2011

Client Sample ID AS-S1D-6-1-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	65600	100		µg/filter 1		6/10/2011

Lab ID: 11060265-003

Collection Date: 6/1/2011

Client Sample ID AS-E1-6-1-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	23200	100		µg/filter 1		6/10/2011

Lab ID: 11060265-004

Collection Date: 6/7/2011

Client Sample ID AS-S1-6-7-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	72900	100		µg/filter 1		6/10/2011

Lab ID: 11060265-005

Collection Date: 6/7/2011

Client Sample ID AS-S1D-6-7-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	90100	100		µg/filter 1		6/10/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: June 14, 2011

Date Printed: June 14, 2011

Client: Tetra Tech EM Inc.

Project: 103DG9021-053.08, OMC, Waukegan

Lab Order: 11060265

Lab ID: 11060265-006

Collection Date: 6/7/2011

Client Sample ID AS-N1-6-7-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	52100	100		µg/filter 1		6/10/2011

Lab ID: 11060265-007

Collection Date: 6/7/2011

Client Sample ID AS-E1-6-7-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	61800	100		µg/filter 1		6/10/2011

Lab ID: 11060265-008

Collection Date: 6/7/2011

Client Sample ID AS-W1-6-7-11

Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
----------	--------	----	-----------	-------	----	---------------

Particulate Matter in Air	40 CFR PART 50 APP. J			Prep Date: 6/9/2011		Analyst: JP
Particulate Matter (as PM10)	72500	100		µg/filter 1		6/10/2011

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded





**Sample Receipt Checklist**

Client Name TETRA CHICAGO

Date and Time Received:

6/9/2011 9:30:00 AM

Work Order Number 11060265

Received by: CDF

Checklist completed by:

Signature

Date

6/9/11

Reviewed by:

Initials

Date

CB 6/10/11

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels/containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container or Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Samples pH checked?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Checked by: _____
Water - Samples properly preserved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	pH Adjusted? _____

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_



March 11, 2010

Dave Smaniotto  
Brandenburg Industrial Services  
2625 S. Loomis  
Chicago, IL 60608

Work Order No.: ME1003188

RE: OMC Waukegan Plant 2 Demolition  
Dear Dave Smaniotto:

Microbac Laboratories, Inc. received 2 samples on 3/5/2010 3:00:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Kevin G. Falvey", is written over the printed name.

Kevin G. Falvey  
Project Manager

Enclosures  
CC:  
Eric J. Ahlgren  
Jo Lynn Graca



## WORK ORDER SAMPLE SUMMARY

**Date:** *Thursday, March 11, 2010*

---

**CLIENT:** Brandenburg Industrial Services  
**Project:** OMC Waukegan Plant 2 Demolition  
**Lab Order:** ME1003188

---

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
ME1003188-01A	Bulbs 1		3/2/2010 1:15:00 PM	3/5/2010
ME1003188-02A	Bulbs 2		3/2/2010 1:21:00 PM	3/5/2010

# ANALYTICAL RESULTS

**Date:** Thursday, March 11, 2010

<b>Client:</b>	Brandenburg Industrial Services	<b>Work Order / ID:</b>	ME1003188-01
<b>Client Project:</b>	OMC Waukegan Plant 2 Demolition	<b>Collection Date:</b>	03/02/10 13:15
<b>Client Sample ID:</b>	Bulbs 1	<b>Date Received:</b>	03/05/10 15:00
<b>Sample Description:</b>			
<b>Sample Matrix:</b>	Wipe		

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
----------	----	--------	----	------	-------	----	----------

<b>PCB'S</b>		Method: <b>SW8082</b>		Prep Date/Time: <b>03/09/10 11:05</b> Analyst: <b>JLW</b>			
Aroclor 1016	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1221	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1232	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1242	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1248	A	<b>5.9</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1254	A	<b>3.0</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1260	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1262	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Aroclor 1268	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 15:37
Total PCB's	A	<b>8.9</b>	1.0		µg/Area	1	03/09/10 15:37
Surr: Tetrachloro-m-xylene	S	65.0	54.9-151		%REC	1	03/09/10 15:37
Surr: Decachlorobiphenyl	S	55.0	38-151		%REC	1	03/09/10 15:37

# ANALYTICAL RESULTS

**Date:** Thursday, March 11, 2010

**Client:** Brandenburg Industrial Services  
**Client Project:** OMC Waukegan Plant 2 Demolition  
**Client Sample ID:** Bulbs 2  
**Sample Description:**  
**Sample Matrix:** Wipe

**Work Order / ID:** ME1003188-02  
**Collection Date:** 03/02/10 13:21  
**Date Received:** 03/05/10 15:00

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
----------	----	--------	----	------	-------	----	----------

<b>PCB'S</b>		Method: <b>SW8082</b>		Prep Date/Time: <b>03/09/10 11:05</b> Analyst: <b>JLW</b>			
Aroclor 1016	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1221	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1232	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1242	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1248	A	<b>1.6</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1254	A	<b>1.0</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1260	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1262	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Aroclor 1268	A	<b>ND</b>	1.0		µg/Area	1	03/09/10 16:01
Total PCB's	A	<b>2.6</b>	1.0		µg/Area	1	03/09/10 16:01
Surr: Tetrachloro-m-xylene	S	65.0	54.9-151		%REC	1	03/09/10 16:01
Surr: Decachlorobiphenyl	S	70.0	38-151		%REC	1	03/09/10 16:01

# **FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

NA	=	Not Analyzed	N/A	=	Not Applicable		
mg/L	=	Milligrams per Liter (ppm)	ug/L	=	Micrograms per Liter (ppb)	cfu	= Colony Forming Unit
mg/Kg	=	Milligrams per Kilogram (ppm)	ug/Kg	=	Micrograms per Kilogram (ppb)	ng/L	= Nanograms per Liter (ppt)
U	=	Undetected					
J	=	Analyte concentration detected between RL and MDL (Metals / Organics)					
j	=	Analyte concentration detected between 1/2 PQL and PQL (for TIC analytes only)					
B	=	Detected in the associated Method Blank at a concentration above the routine PQL/RL					
b	=	Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL					
D	=	Surrogate recoveries are not calculated due to sample dilution					
ND	=	Not Detected at the Reporting Limit (or the Method Detection Limit, if listed)					
E	=	Value above quantitation range					
H	=	Analyte was prepared and/or analyzed outside of the analytical method holding time					
I	=	Matrix Interference					
R	=	RPD outside accepted recovery limits					
S	=	Spike recovery outside recovery limits					
Surr	=	Surrogate					
DF	=	Dilution Factor	RL	=	Reporting Limit	ST	= Sample Type
						MDL	= Method Detection Limit

## **SAMPLE TYPES**

A	=	Analyte
I	=	Internal Standard
S	=	Surrogate
T	=	Tentatively Identified Compound (TIC, concentration estimated)

## **QC SAMPLE IDENTIFICATIONS**

MBLK	=	Method Blank	ICSA	=	Interference Check Standard "A"	OPR	=	Ongoing Precision and Recovery Standard
DUP	=	Method Duplicate	ICSAB	=	Interference Check Standard "AB"			
LCS	=	Laboratory Control Sample	LCSD	=	Laboratory Control Sample Duplicate			
MS	=	Matrix Spike	MSD	=	Matrix Spike Duplicate			
ICB	=	Initial Calibration Blank	CCB	=	Continuing Calibration Blank			
ICV	=	Initial Calibration Verification	CCV	=	Continuing Calibration Verification			
PDS	=	Post Digestion Spike	SD	=	Serial Dilution			

## **CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #1755266)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-03)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-8)
- Kentucky DEP for the chemical analysis of drinking water (lab #90147)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #75)
- New York SDH for the chemical analysis of air and emissions (lab #11909)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Tennessee DEC for the chemical analysis of drinking water (lab #04017)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

## **MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

<b>Baltimore Division</b> - Baltimore, MD	<b>Kentucky Division</b> - Louisville, KY	<b>Ohio Valley Division</b> - Marietta, OH
<b>Camp Hill Division</b> - Camp Hill, PA	<b>Kentucky Division (Sat)</b> - Evansville, IN	<b>Pittsburgh Division</b> - Warrendale, PA
<b>Camp Hill Division (SC)</b> - Pittston, PA	<b>Kentucky Division (Sat)</b> - Lexington, KY	<b>Richmond Division</b> - Richmond, VA
<b>Chicagoland Division</b> - Merrillville, IN	<b>Kentucky Division (Sat)</b> - Paducah, KY	<b>South Carolina Division</b> - New Ellenton, SC
<b>Chicagoland Division (SC)</b> - Indianapolis, IN	<b>Knoxville Division</b> - Maryville, TN	<b>South Jersey Division</b> - Laurel Springs, NJ
<b>Southern California Division</b> - Corona, CA	<b>Massachusetts Division</b> - Worcester, MA	<b>Southern Headquarters</b> - Poquoson, VA
<b>Erie Division</b> - Erie, PA	<b>Microbac Corporate Office</b> - Pittsburgh, PA	<b>Southern Testing Division</b> - Wilson, NC
<b>Fayetteville Division</b> - Fayetteville, NC	<b>Microbac NY - Cortland Office</b> - Cortland, NY	<b>Southern Testing Division (Sat)</b> - Greensboro, NC
<b>Hauser Division</b> - Boulder, CO	<b>Microbac NY - Waverly Office</b> - Waverly, NY	<b>Venice Division</b> - Venice, FL



## COOLER INSPECTION

Date: Thursday, March 11, 2010

Client Name **Brandenburg Industrial Service**

Date / Time Received: **3/5/2010 3:00:00 PM**

Work Order Number **ME1003188**

Received by DP

Checklist completed by DP 3/5/2010 4:50:18 PM

Reviewed by

Carrier name: Microbac

After-Hour Arrival?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included sufficient client identification?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included sufficient sample collector information?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included a sample description?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody identified the appropriate matrix?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included date of collection?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody included time of collection?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody identified the appropriate number of containers?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
If samples are preserved, are the preservatives identified?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples properly preserved?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

Chain of custody included the requested analyses?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Samples received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Container/Temp Blank temperatures Cooler Temp  
1 6 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted ☐ Yes ☐ No ☐

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME1003188-01A	Bulbs 1	
ME1003188-02A	Bulbs 2	



CLIENT: Brandenburg Industrial Services  
 Work Order: ME1003188  
 Project: OMC Waukegan Plant 2 Demolition

## ANALYTICAL QC SUMMARY REPORT

BatchID: 80474

Sample ID: bk-5-030910	SampType: mblk	TestCode: 8081pcb_wip	Units: µg/Area	Prep Date: 3/9/2010 11:05:00 AM	Run ID: ECD-1_100309A						
Client ID: ZZZZZ	Batch ID: 80474	TestNo: SW8082		Analysis Date: 3/9/2010 12:24:00 PM	SeqNo: 2291073						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	1.0									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	1.0									
Aroclor 1242	ND	1.0									
Aroclor 1248	ND	1.0									
Aroclor 1254	ND	1.0									
Aroclor 1260	ND	1.0									
Aroclor 1262	ND	1.0									
Aroclor 1268	ND	1.0									
Total PCB's	ND	1.0									
Surr: Tetrachloro-m-xylene	0.19		0.2	0	95	54.9	151	0	0		
Surr: Decachlorobiphenyl	0.2		0.2	0	100	38	151	0	0		

Sample ID: lcs-5a-030910	SampType: lcs	TestCode: 8081pcb_wip	Units: µg/Area	Prep Date: 3/9/2010 11:05:00 AM	Run ID: ECD-1_100309A						
Client ID: ZZZZZ	Batch ID: 80474	TestNo: SW8082		Analysis Date: 3/9/2010 12:48:00 PM	SeqNo: 2291074						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.838	1.0	5	0	96.8	57.7	138	0	0		
Aroclor 1260	5.04	1.0	5	0	101	57	141	0	0		
Surr: Tetrachloro-m-xylene	0.17		0.18	0	94.4	54.9	151	0	0		
Surr: Decachlorobiphenyl	0.18		0.18	0	100	38	151	0	0		

Sample ID: lcs-5b-030910	SampType: lcs	TestCode: 8081pcb_wip	Units: µg/Area	Prep Date: 3/9/2010 11:05:00 AM	Run ID: ECD-1_100309A						
Client ID: ZZZZZ	Batch ID: 80474	TestNo: SW8082		Analysis Date: 3/9/2010 1:12:00 PM	SeqNo: 2291075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	4.756	1.0	5	0	95.1	57.7	138	0	0		
Aroclor 1260	4.956	1.0	5	0	99.1	57	141	0	0		
Surr: Tetrachloro-m-xylene	0.17		0.18	0	94.4	54.9	151	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected above reporting limit in the Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      b - Analyte detected below reporting limit in the Method Blank  
 H - Analyte was prepared and/or analyzed outside of the analytical method holding time

CLIENT: Brandenburg Industrial Services  
Work Order: ME1003188  
Project: OMC Waukegan Plant 2 Demolition

ANALYTICAL QC SUMMARY REPORT

BatchID: 80474

Sample ID: lcs-5b-030910	SampType: lcs	TestCode: 8081pcb_wip	Units: µg/Area	Prep Date: 3/9/2010 11:05:00 AM	Run ID: ECD-1_100309A						
Client ID: ZZZZZ	Batch ID: 80474	TestNo: SW8082		Analysis Date: 3/9/2010 1:12:00 PM	SeqNo: 2291075						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Decachlorobiphenyl	0.18		0.18	0	100	38	151	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
H - Analyte was prepared and/or analyzed outside of the analytical method holding time

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected above reporting limit in the Method Blank  
b - Analyte detected below reporting limit in the Method Blank





548112

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading.

From **BRANDENBURG INDUSTRIAL SERVICE CO.**

(Name of Carrier) Shipper's No.

Carrier's No.

At **IL 1117**Date **4/6/11** 20

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of the said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Signed to **General Iron**

(Mail or street address of consignee—For purposes of notification only)

Destination \_\_\_\_\_ State \_\_\_\_\_ County \_\_\_\_\_

Route \_\_\_\_\_ Delivery Address \*

(\*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier **Brandenburg (McCorkle)** Car or Vehicle Initials \_\_\_\_\_ No. \_\_\_\_\_**C** Collect **O**n **D**elivery \$ \_\_\_\_\_ and remit to: **BRANDENBURG INDUSTRIAL SERVICE CO.**C. O. D. charge } Shipper ☐  
to be paid by } Consignee ☐**2625 S. LOOMIS** **CHICAGO** **IL** **60608**

No. Packages	Kind of Packages, Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Correction)	Class or Rate	Check Column
1	CNP P&S	2220N		

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

**BRANDENBURG INDUSTRIAL SERVICE CO.**  
(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ \_\_\_\_\_ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

 Per \_\_\_\_\_  
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

"Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Department of Transportation."

\* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

**BRANDENBURG INDUSTRIAL SERVICE CO.**

2625 S. Loomis

Chicago, IL 60608-5414

Permanent Post Office address of Shipper.

Shipper

Per **Manuel**

Agent

Per



# General Iron Industries

Ticket Number 03-575921

04/06/2011

114

175

BRANDENBURG INDUSTRIAL SERVICE

MCCORKLE 7

IL1117/548112

Gross Wt	Tare Wt	Adjustment	Net
64,000	44,960		19,040

Material	Weight
ST	19,040

## Notes

//LJT

Time In: 04/06/2011 12:12:59 PM

Time Out: 04/06/2011 12:32:48 PM

Valid Through: 10/05/2011







# General Iron Industries

Ticket Number 03-576535

04/12/2011

136

175

BRANDENBURG INDUSTRIAL SERVICE

GREEN 50042

IL1080-570123

<u>Gross Wt</u>	<u>Tare Wt</u>	<u>Adjustment</u>	<u>Net</u>
59,020	48,140		10,880

<u>Material</u>	<u>Weight</u>
S	10,880

## Notes

-

Time In: 04/12/2011 02:15:26 PM

Time Out: 04/12/2011 02:40:58 PM

Valid Through: 10/11/2011





571189

RECEIVED, subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading,  
From **BRANDENBURG INDUSTRIAL SERVICE CO.**

(Name of Carrier)

Shipper's No.

Carrier's No.

Date

At

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of the said property over all or any portion of said route to destination, and as to each party at any place interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Signed to

(Mail or street address of consignee—For purposes of notification only)

Destination

State

County

Route

Delivery Address \*

(\*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier

Car or Vehicle Initials

No.

Collect On Delivery \$

and remit to:

**BRANDENBURG INDUSTRIAL SERVICE CO.**

2625 S. LOOMIS

CHICAGO

IL

60608

C. O. D. charge  
to be paid by

Shipper ☐  
Consignee ☐

No. Packages	Kind of Packages, Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Correction)	Class or Rate	Check Column
1 load	Sheet Iron	55200		
		59080		
		6620		

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:  
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

**BRANDENBURG INDUSTRIAL SERVICE CO.**  
(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received \$ \_\_\_\_\_ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per \_\_\_\_\_  
(The signature here acknowledges only the amount prepaid.)  
Charges Advanced:

Fibre Boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon and all other requirements of Consolidated Freight Classification.

This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

"Shipper's imprint in lieu of stamp; not a part of bill of lading approved by the Department of Transportation."

\* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \_\_\_\_\_ per \_\_\_\_\_

**BRANDENBURG INDUSTRIAL SERVICE CO.**

2625 S. Loomis

Chicago, IL 60608-5414

Shipper,

Per

Agent

Per

Permanent Post Office address of Shipper.



# General Iron Industries

Ticket Number 03-574223

03/18/2011

139

175

BRANDENBURG INDUSTRIAL SERVICE

50038

IL1028-571189

Gross Wt	Tare Wt	Adjustment	Net
55,700	49,080		6,620

Material	Weight
S	6,620

## Notes

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Time In: 03/18/2011 02:01:10 PM

Time Out: 03/18/2011 02:14:40 PM

Valid Through: 09/16/2011



# WEIGHED ON A FAIRBANKS SCALE

TICKET NUMBER 9017

CUSTOMER'S NAME BRANDENBURG IND. SERVICE

ADDRESS \_\_\_\_\_

COMMODITY MISC-Scrap

CARRIER General Van

INBOUND 49140 lb

TRUCK ID 50038

INBOUND DATE 3-18-11 TIME 11:43AM

OUTBOUND DATE 3-18-11 TIME 12:03PM

55740 lb GROSS

49140 lb TARE

6600 lb NET

DRIVER ON \_\_\_\_\_ OFF \_\_\_\_\_

TRUCK ID 50038

SHIPPER \_\_\_\_\_

WEIGHER \_\_\_\_\_